

FIG. 1

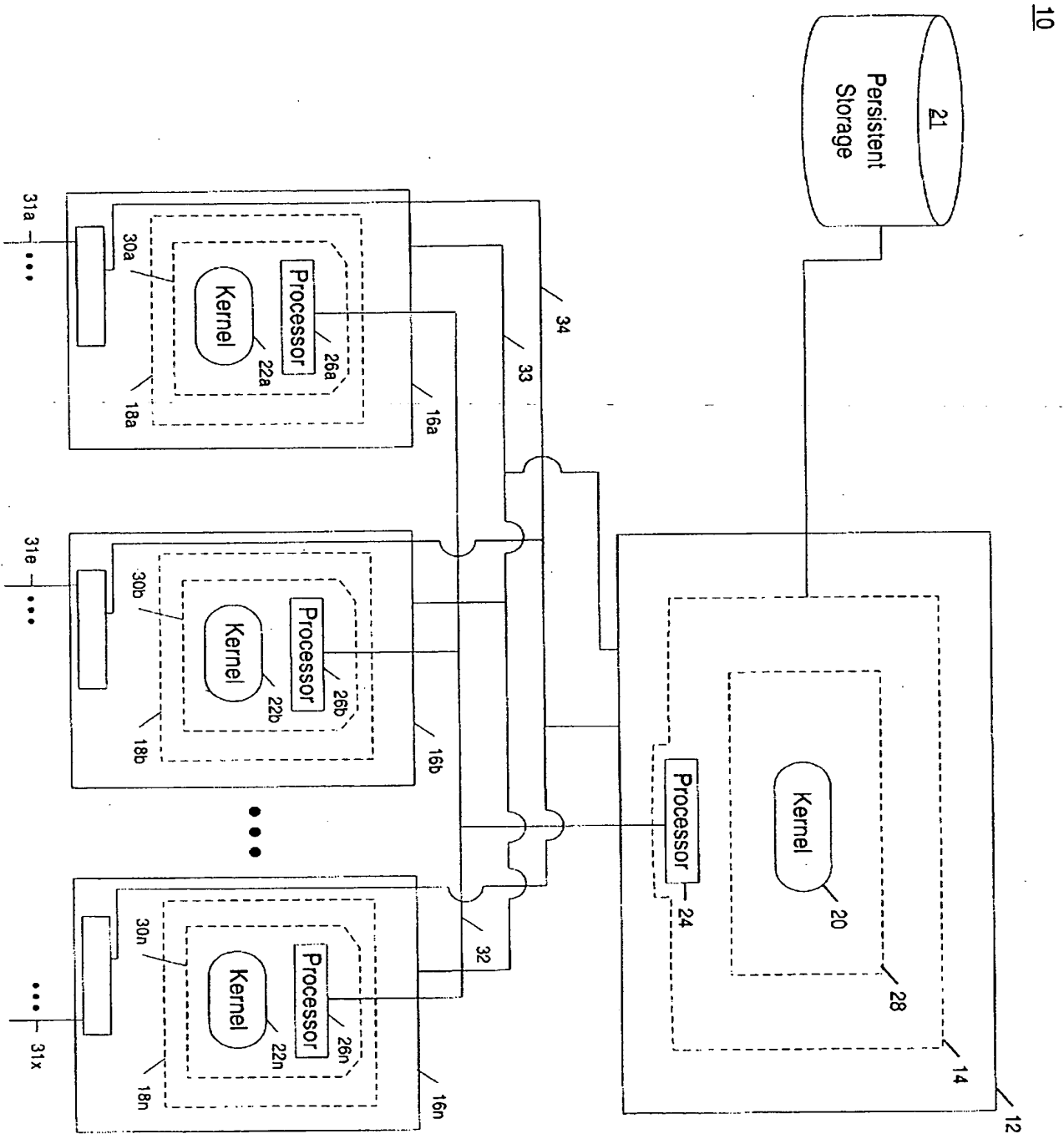


FIG. 1 is a block diagram of a system architecture. The system 10 includes a main processing unit 12 and a set of slave processing units 16a, 16b, ..., 16n. The main unit 12 contains a Kernel 20 and a Processor 24. A Persistent Storage unit 21 is connected to the main unit. A common bus 33 connects the main unit to the slave units. Each slave unit 16x contains a Kernel 22x and a Processor 26x. The slave units are also connected to a set of external devices 30a, 30b, ..., 30n via a bus 34.

FIG. 2

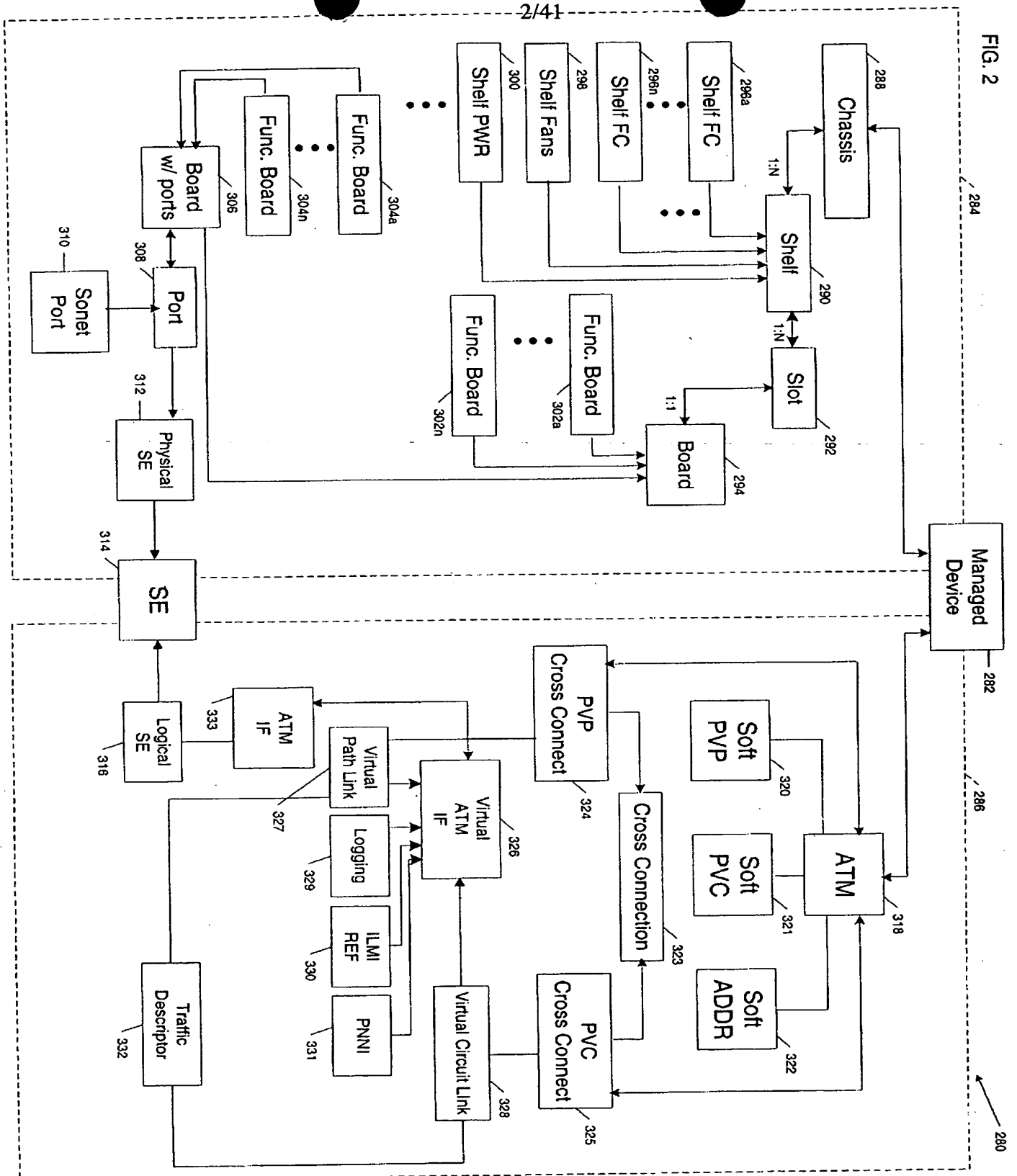


FIG. 3

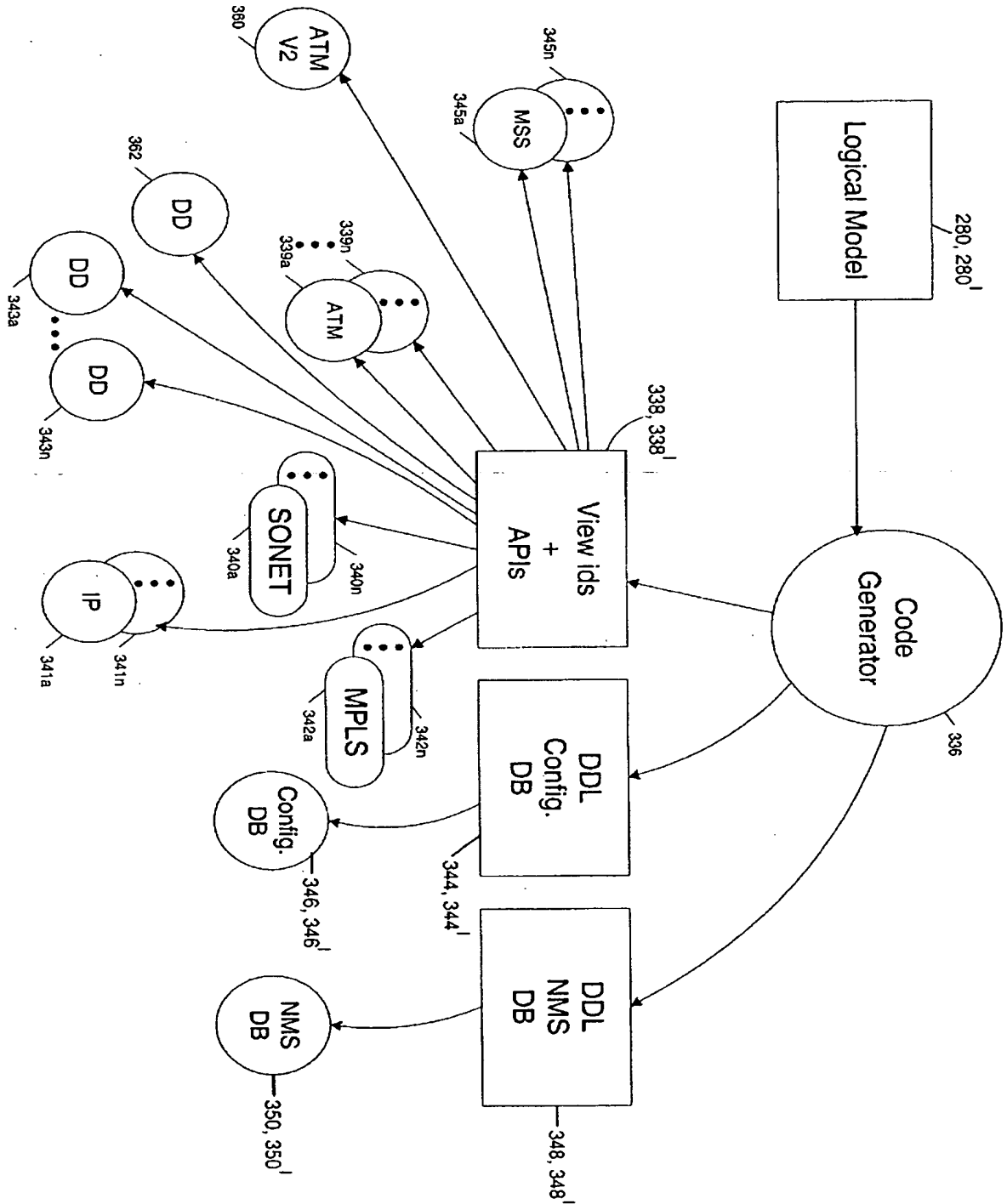


FIG. 3 is a block diagram of a code generator system. The system includes a logical model 280, 280' which provides input to a code generator 336. The code generator 336 generates view identifiers and APIs 338, 338', DDL configuration database 344, 344', and DDL NMS database 348, 348'. The view identifiers and APIs 338, 338' are used to generate various network protocols including MSS 345a, ATM 339n, DD 362, SONET 340a, MPLS 342a, and IP 341a. The DDL configuration database 344, 344' is used to generate a configuration database 346, 346', and the DDL NMS database 348, 348' is used to generate an NMS database 350, 350'. The ATM 339n output is further processed into ATM V2 360, and the DD 362 output is further processed into DD 343n.

FIG. 4

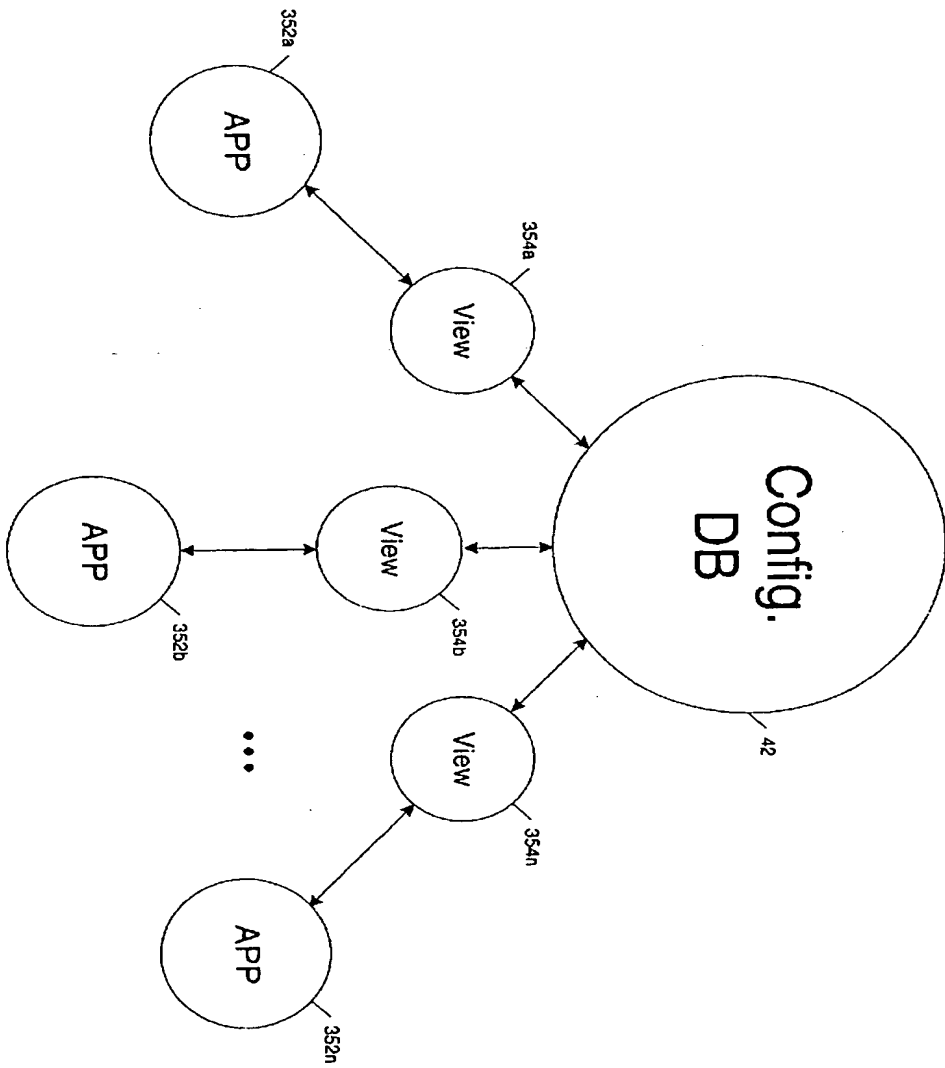
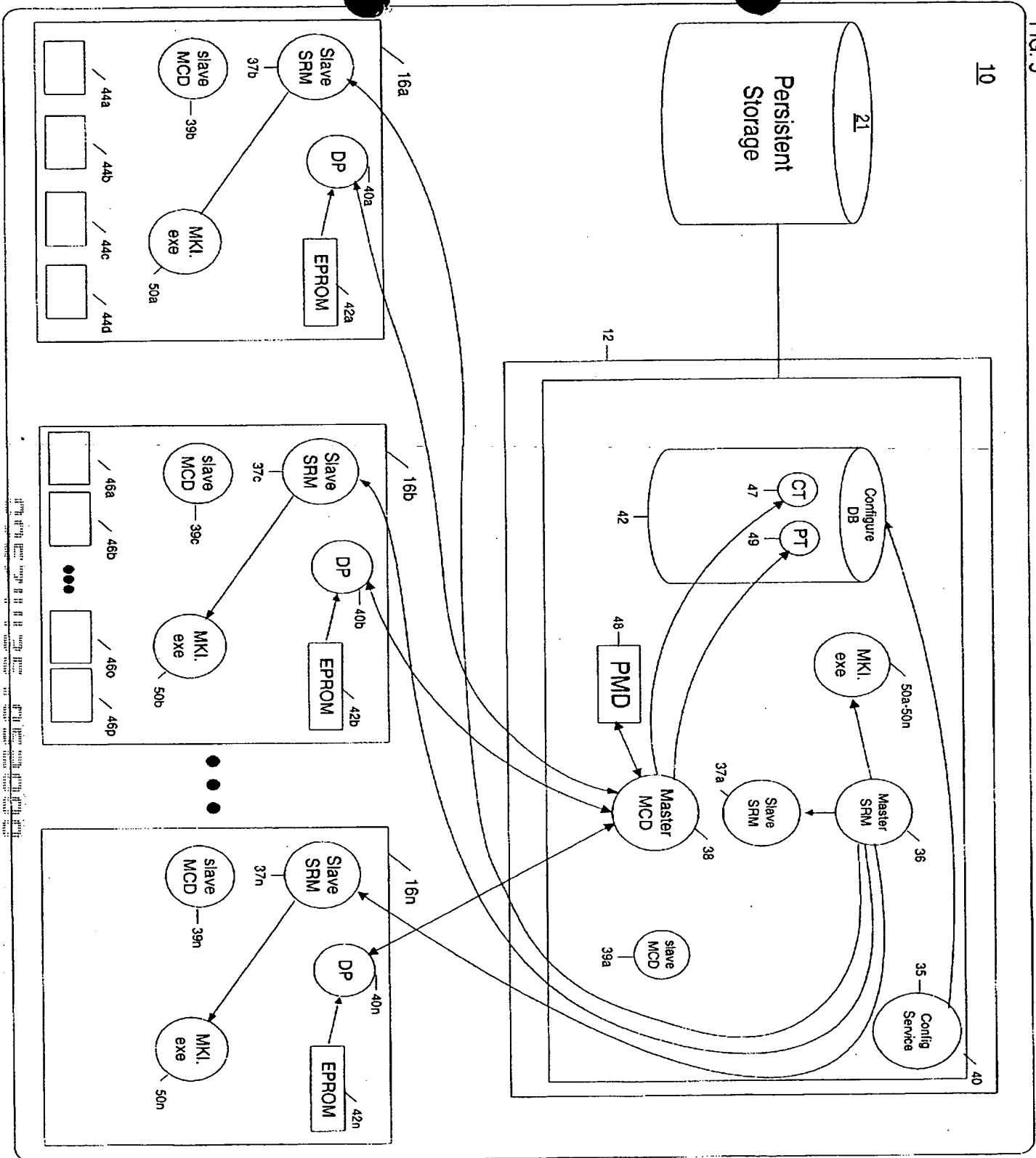


FIG. 5



CARD TABLE

PID	CWD TYPE	VERSION NO.	SLOT NO.	...
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47

16 a —	500	0XF002	3	1	
16 b —	501	0XF002	4	2	

16 e —	505	0X6002	1	5	

16 n —	513	0XF002	1	12	

FIG. 6

49

PID	PORT TYPE	VERSION NO.	SLOT NO.	...	
44a —	1500	00620	1	1	
44b —	1501	00620	1	1	
44c —	1502	00620	1	1	
44d —	1503	00620	1	1	
46a —	1504	00820			
	∴ ∴	∴ ∴	∴ ∴	∴ ∴	∴ ∴
	1600	00620	1	8	
	∴ ∴	∴ ∴	∴ ∴	∴ ∴	∴ ∴

FIG. 7

FIG. 8

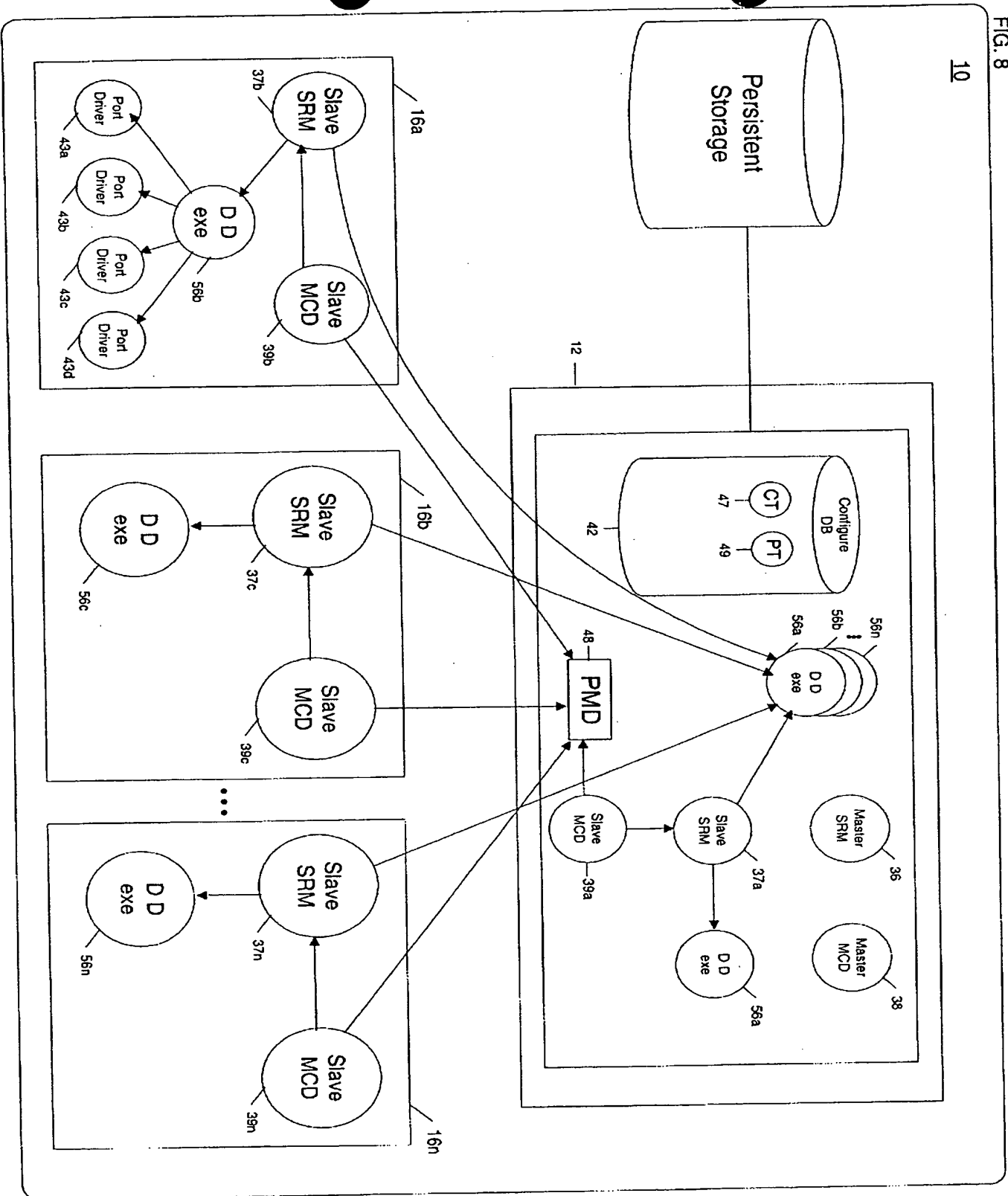


FIG. 9

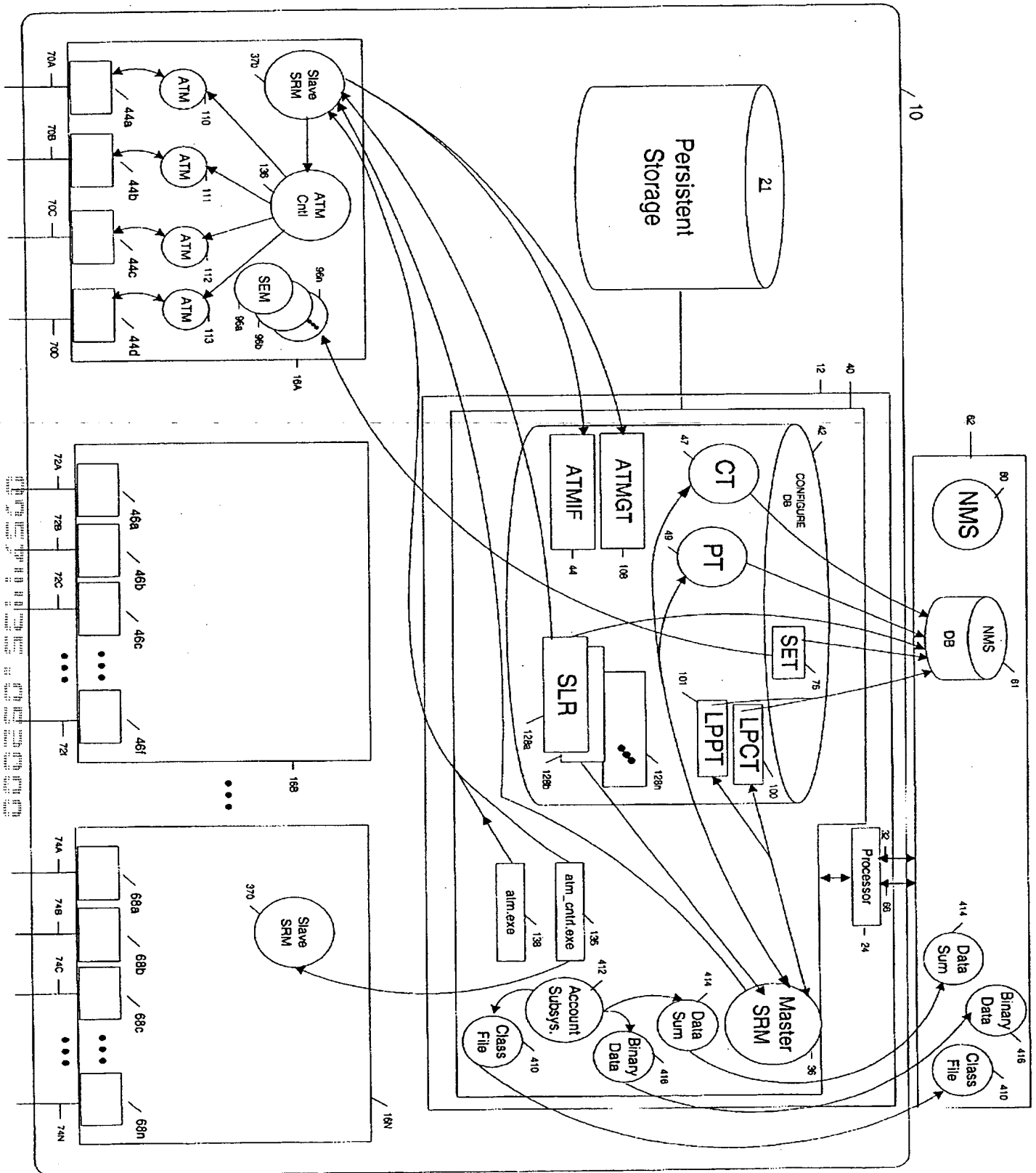


FIG. 10

Service Endpoint Table 76

	Service Endpoint #	Port PID
78	1	1500
80	2	1501
82	3	1501
84	4	1501
86	5	1502
88	6	1502
90	7	1503
92	8	1503
94	9	1503
168	10	1502
	⋮	⋮

FIG. 11a

Logical to Physical Card Table 100

	LID	Primary PID	Back-up PID
106	30	500	513
109	31	501	513
	⋮	⋮	⋮

FIG. 11b

Logical to Physical Port Table 101

	LID	Primary PID	Back-up PID
107	40	1500	1600
	⋮	⋮	⋮

FIG. 12

ATM Group Table 108

Group #	Card LID	...
1	30	
2	30	
3	30	
4	30	

FIG. 13

ATM Interface Table 114

ATM IF	ATM Group	SE	...
1	1	1	
2	1	1	
3	1	1	
4	2	2	
5	2	3	
6	2	4	
⋮	⋮	⋮	⋮
12	3	10	
⋮	⋮	⋮	⋮

FIG. 14

Software Load Record 128a

130	Control Shim	LID	132
134	atm-cntl.exe	30	

16a

FIG. 15

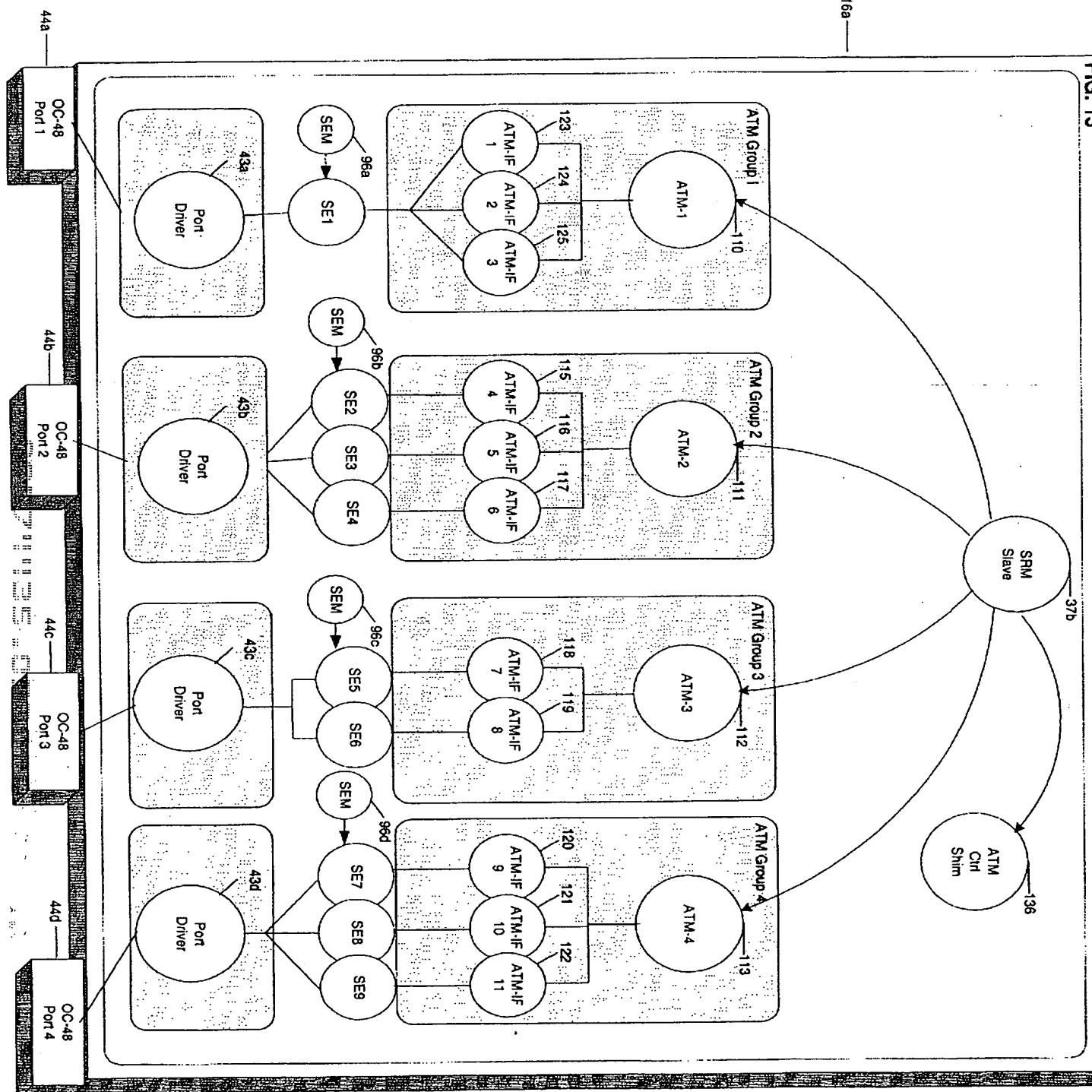


FIG. 16a

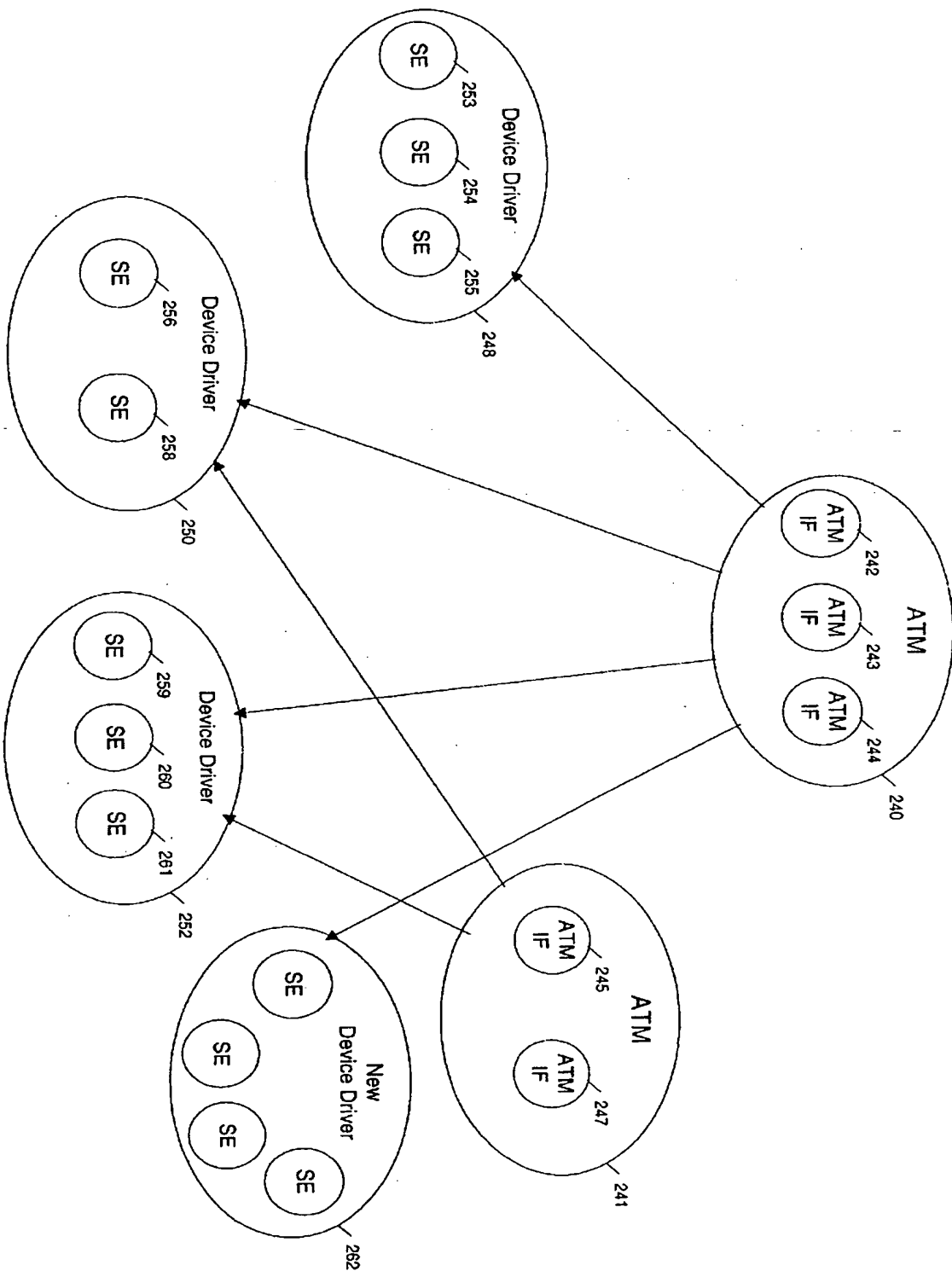


FIG. 16b

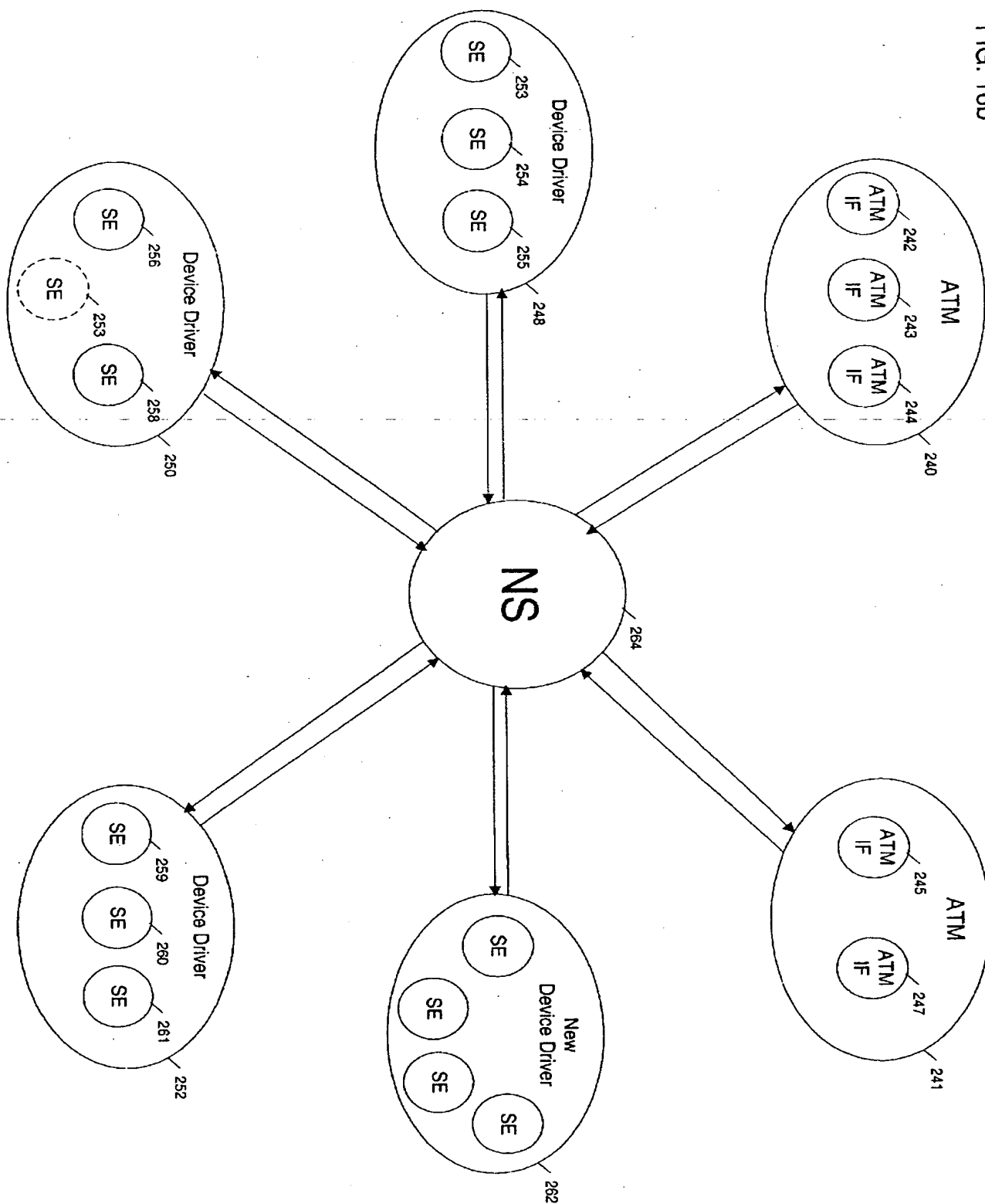


FIG. 16c

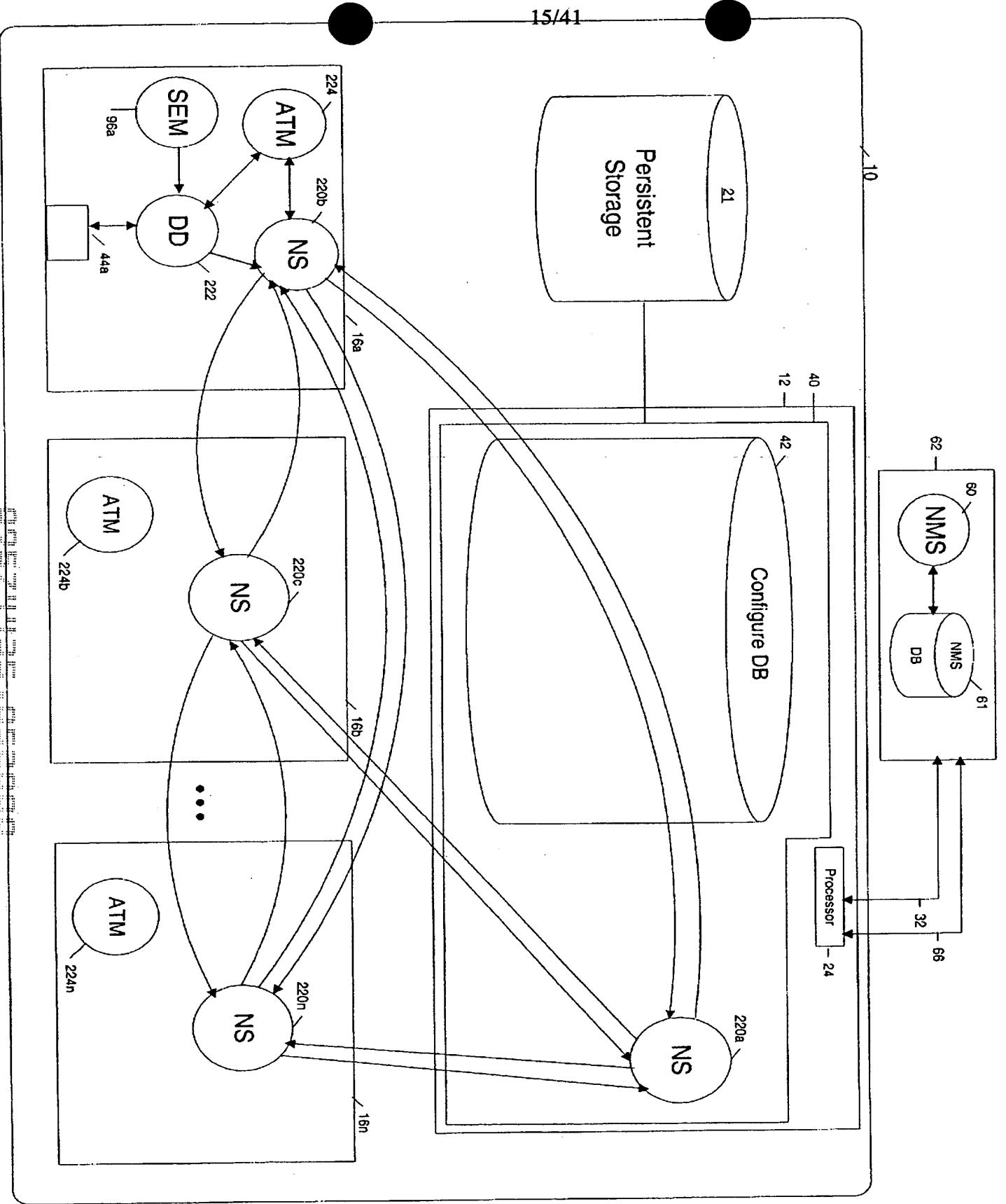


FIG. 16d

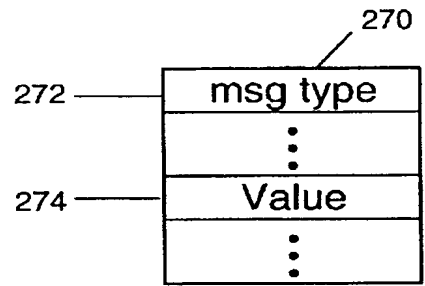
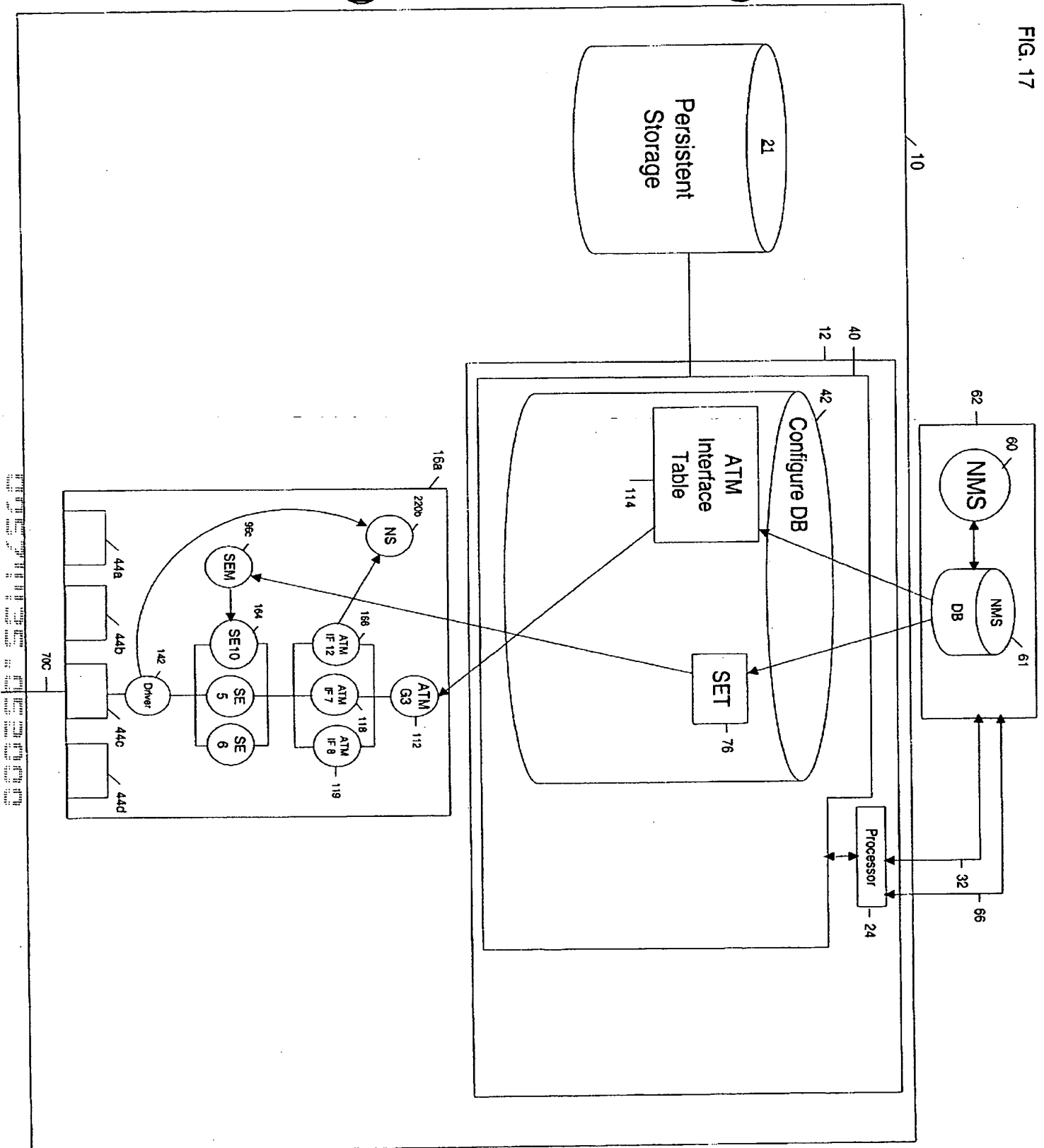
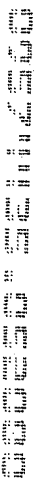


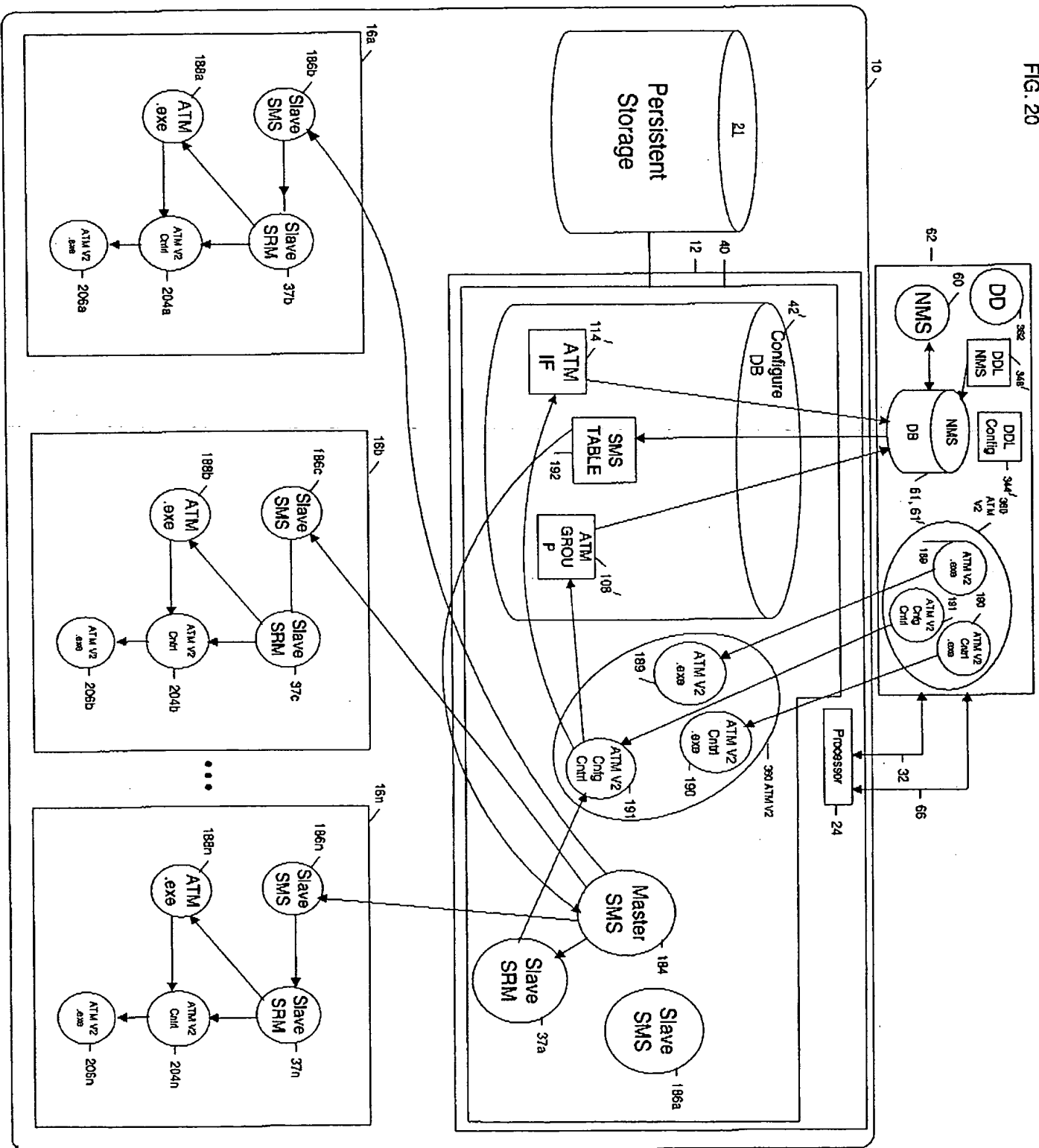
FIG. 17





[illegible]

FIG. 20



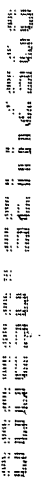


FIG. 22

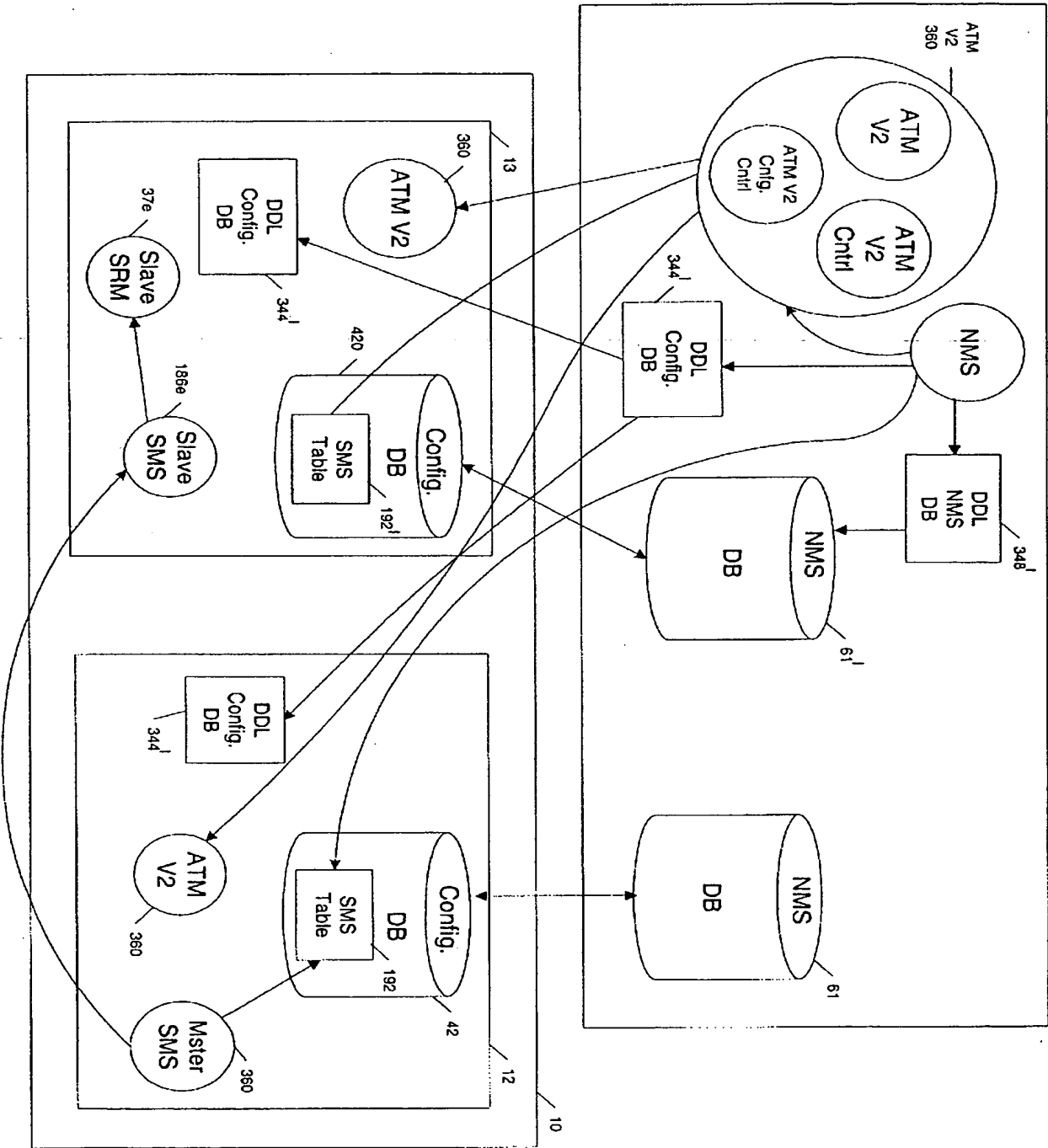


FIG. 23

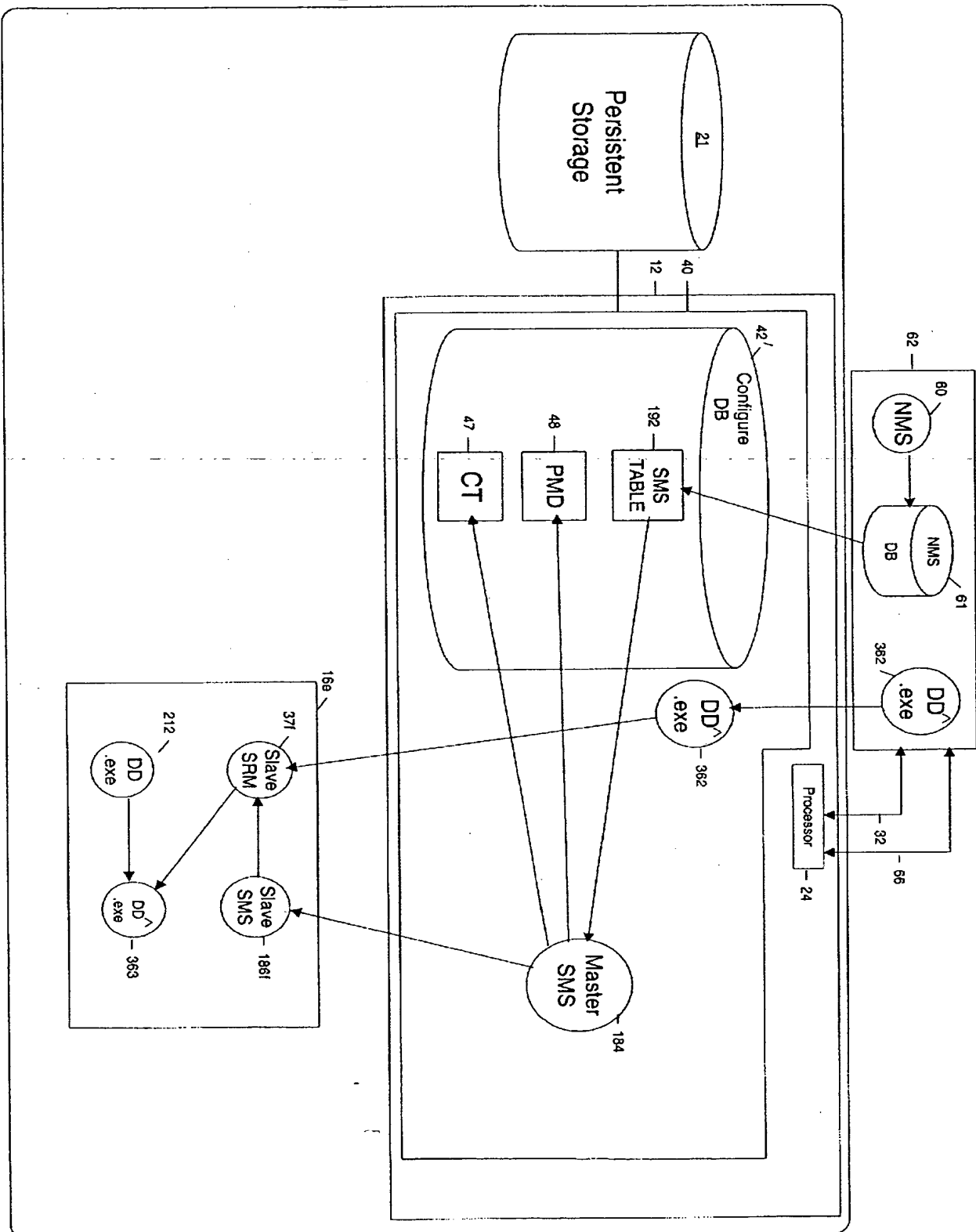


FIG. 24

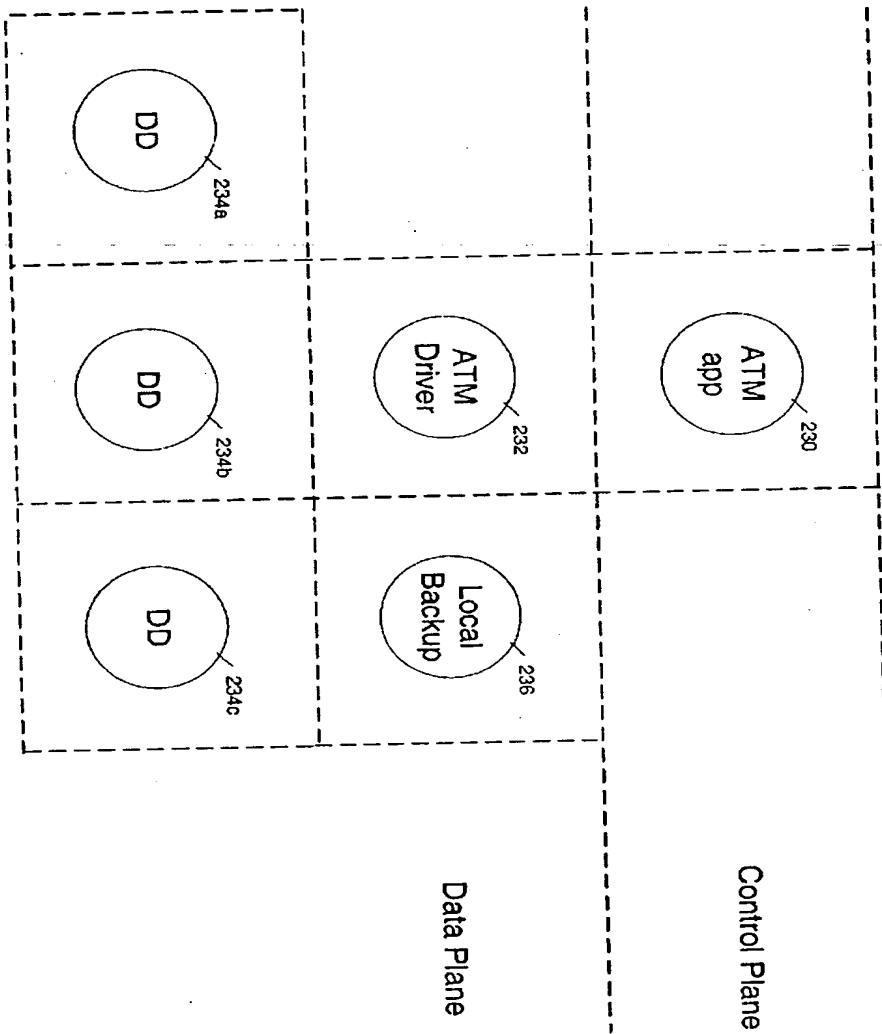


FIG. 25

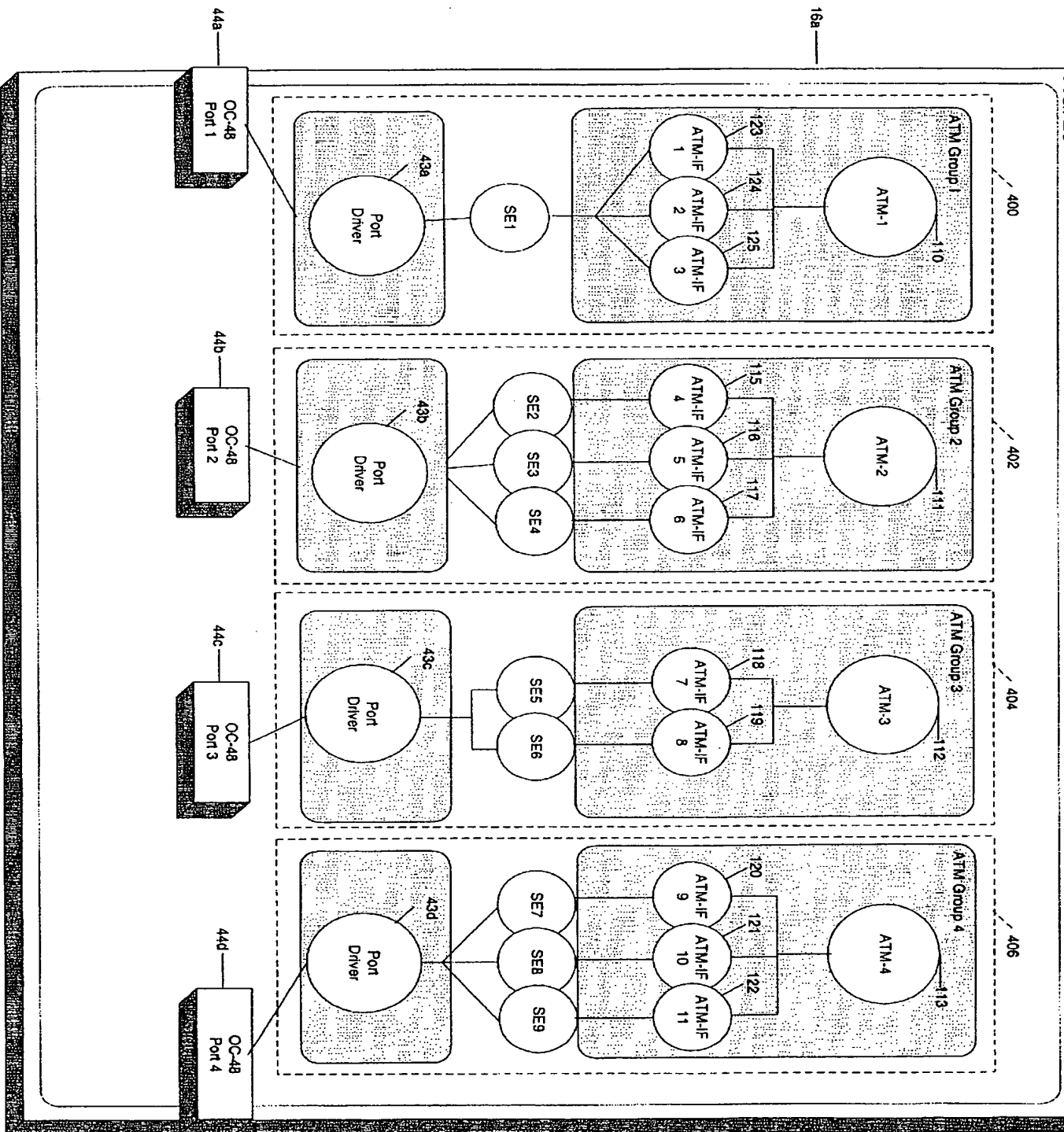


FIG. 26

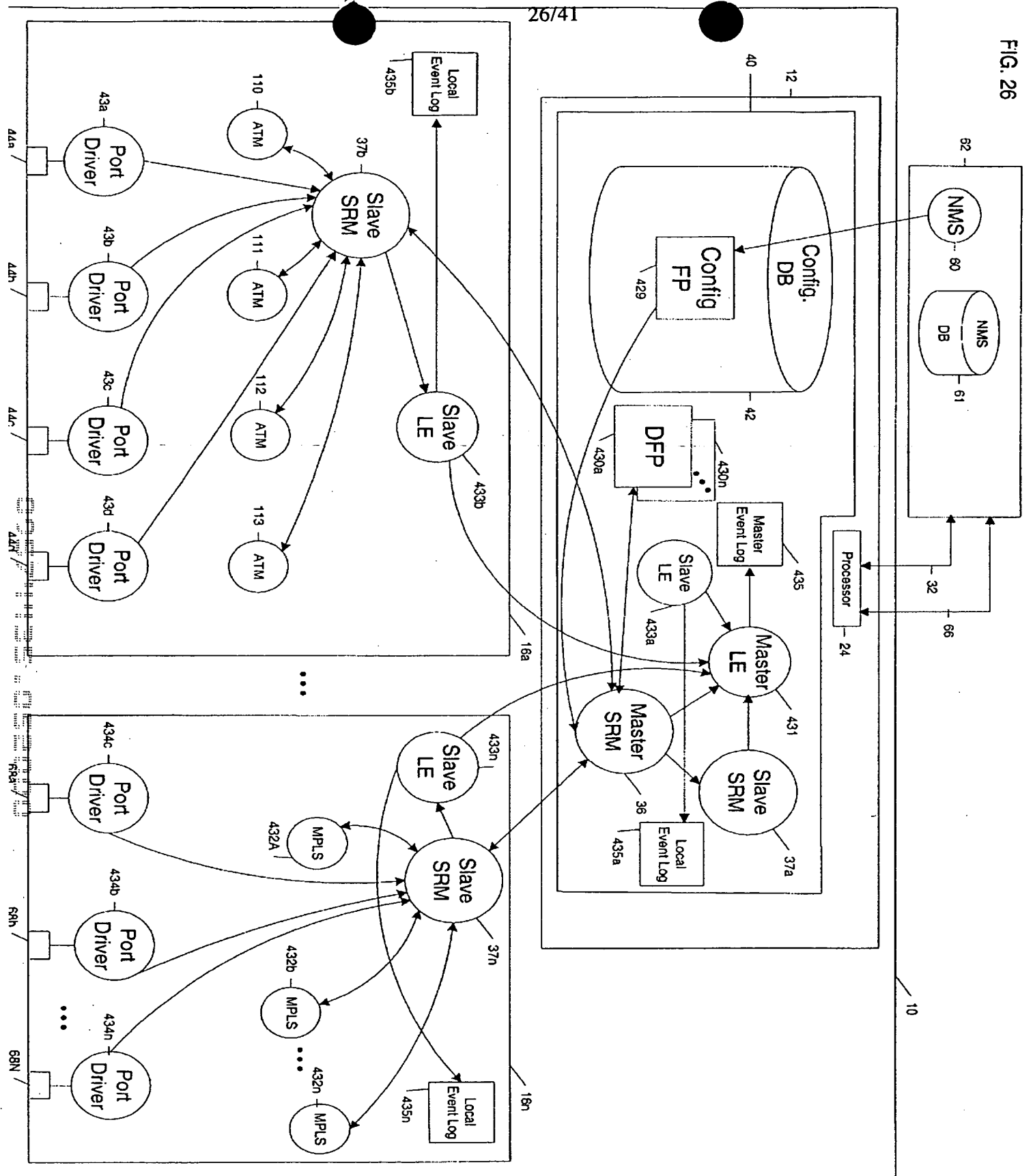


FIG. 27

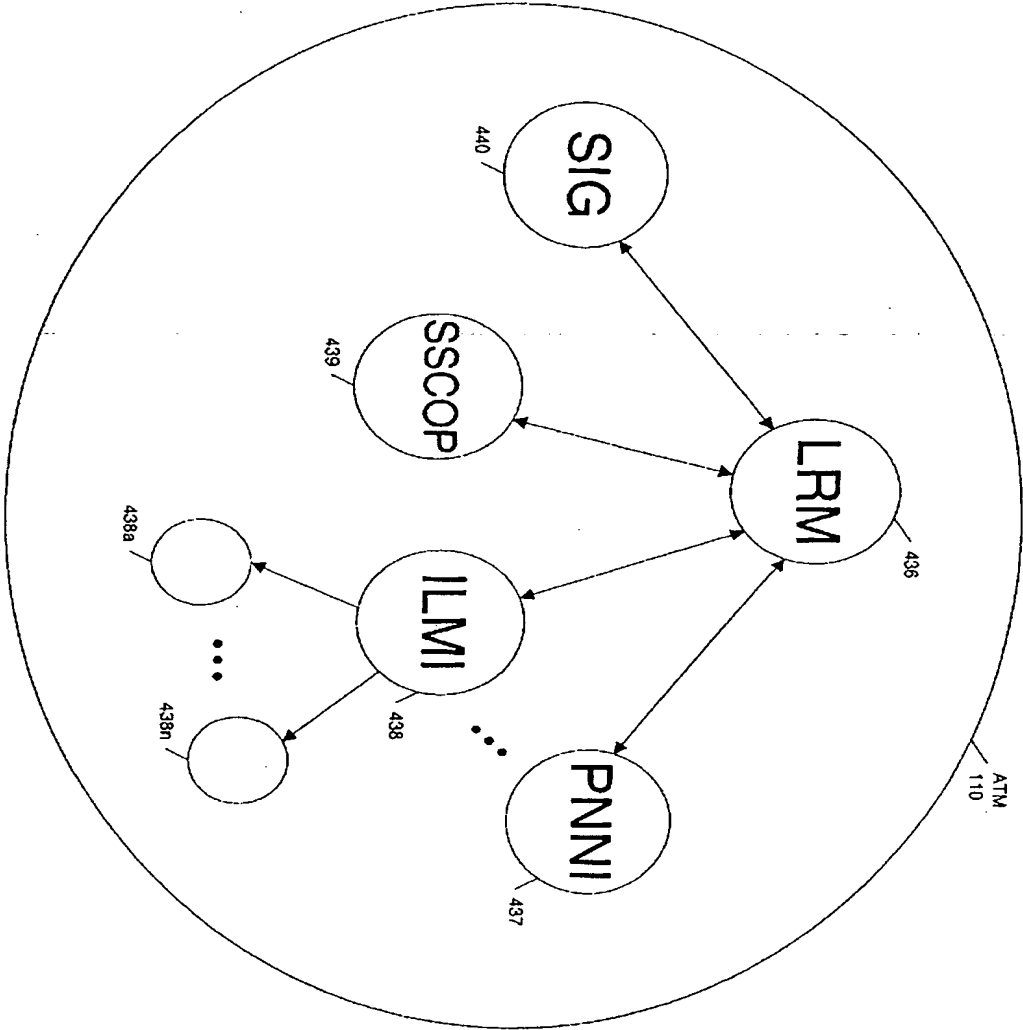


FIG. 28

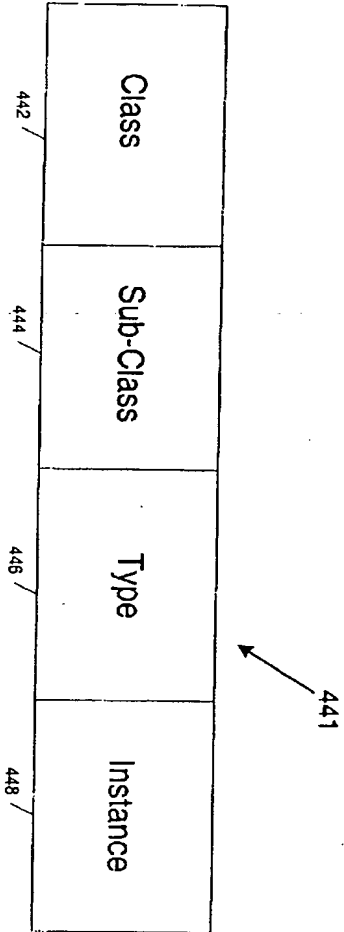


FIG. 29

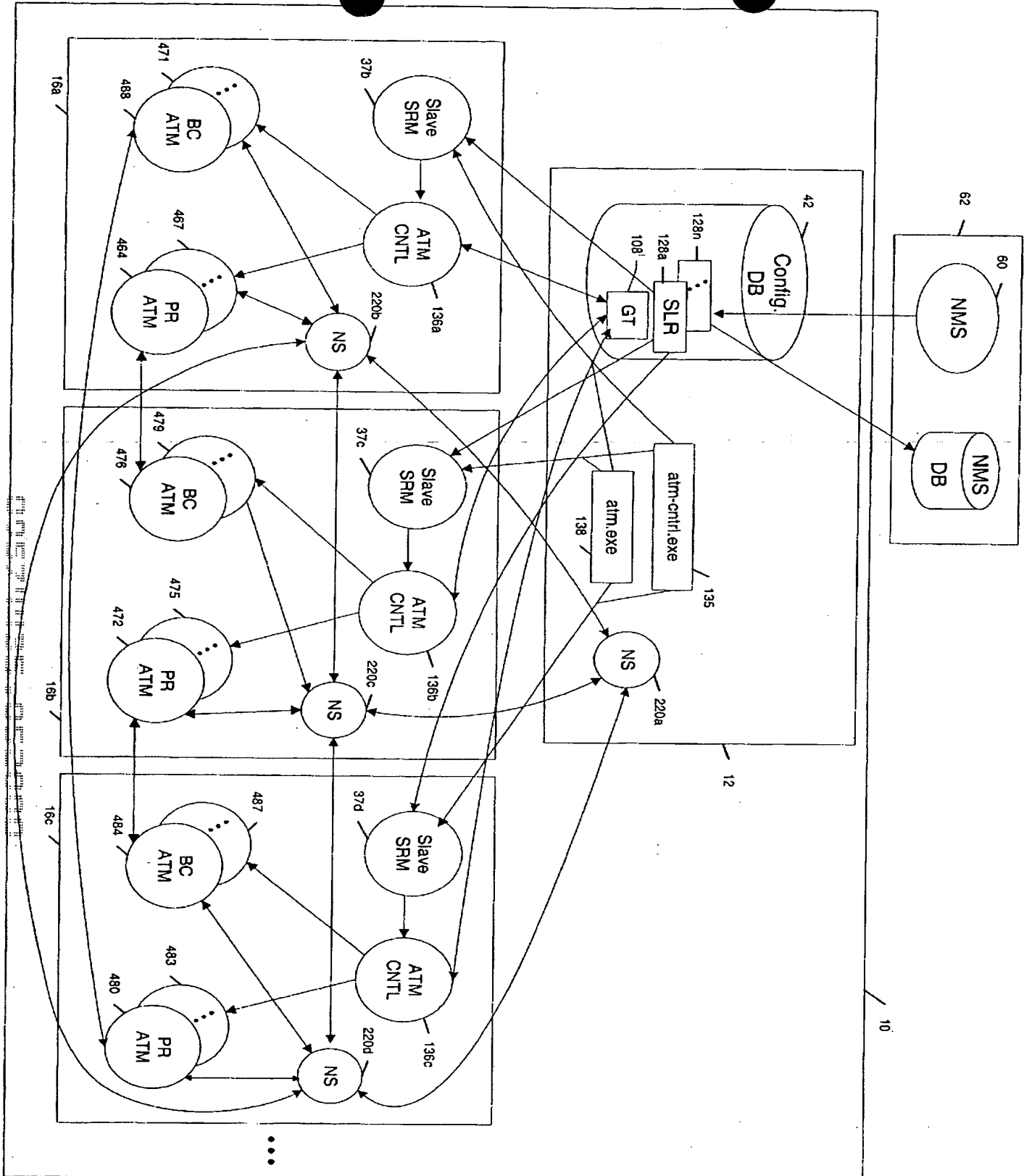


FIG.30

Group Table 108'

447449

	Group #	Primary Card LID	Backup Card LID	...
450	1	30	31	
451	2	30	31	
452	3	30	31	
453	4	30	31	
454	5	31	32	
455	6	31	32	
456	7	31	32	
457	8	31	32	
458	9	32	30	
459	10	32	30	
460	11	32	30	
461	12	32	30	
	⋮	⋮	⋮	⋮

Fig. 31a

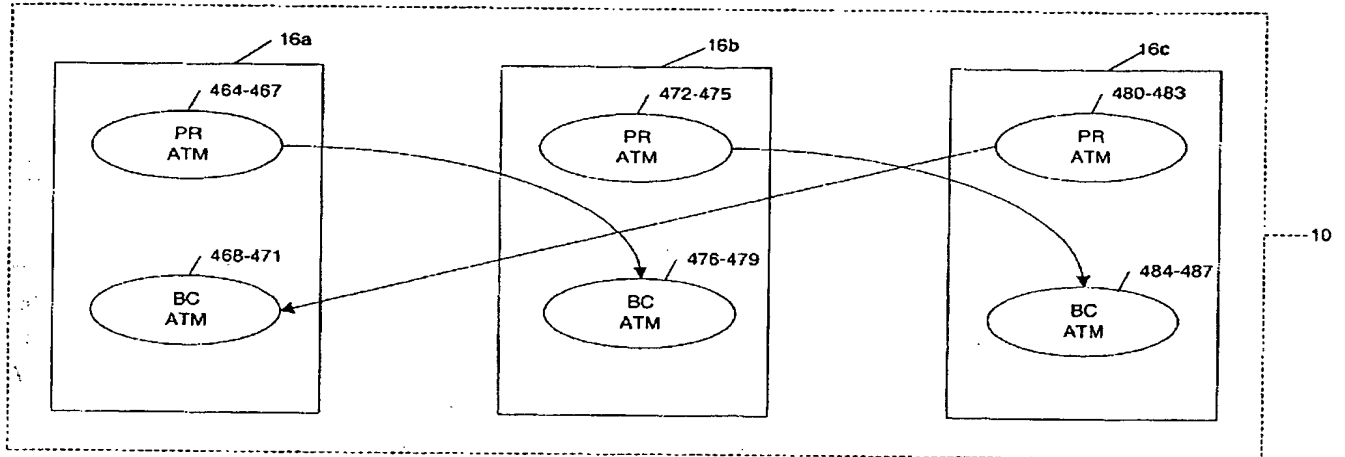


Fig. 31b

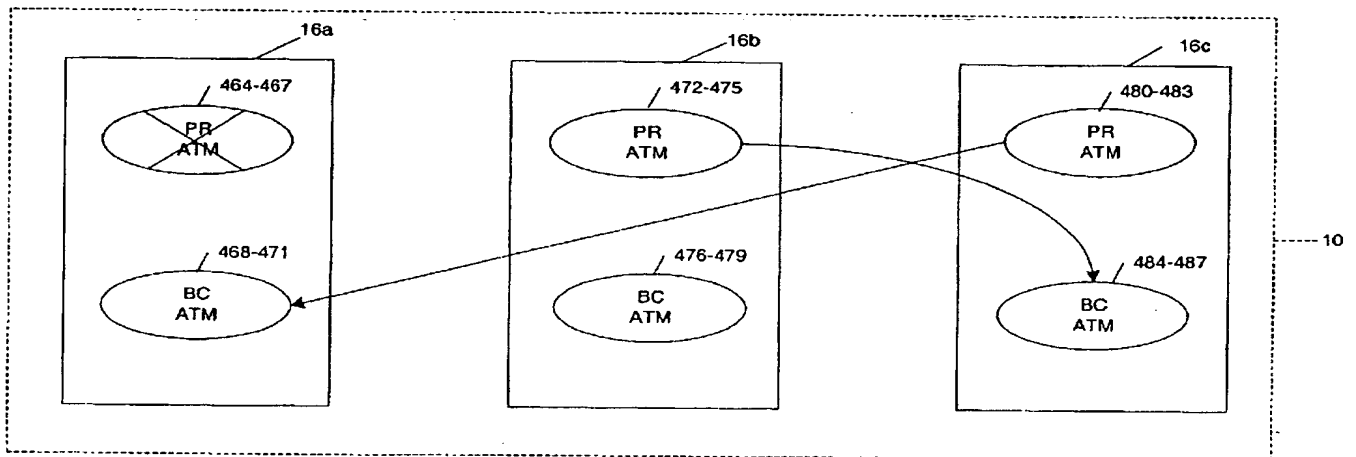


Fig. 31c

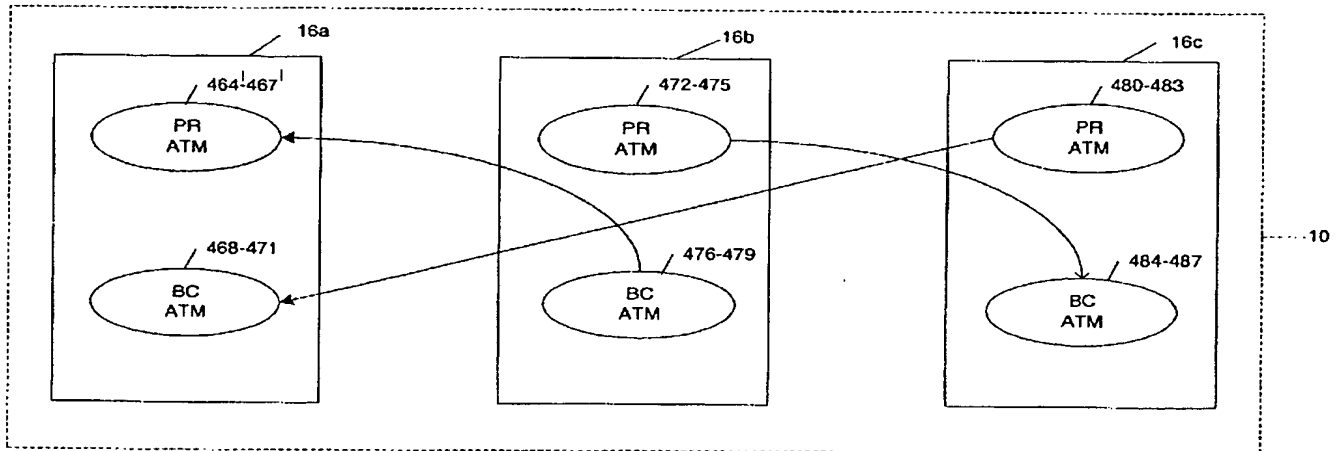


Fig. 32a

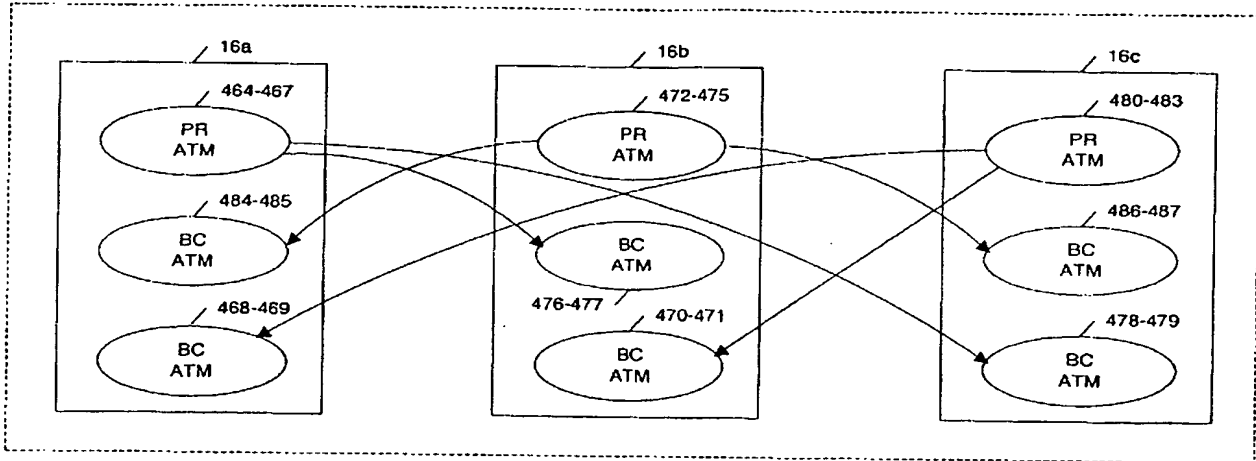


Fig. 32b

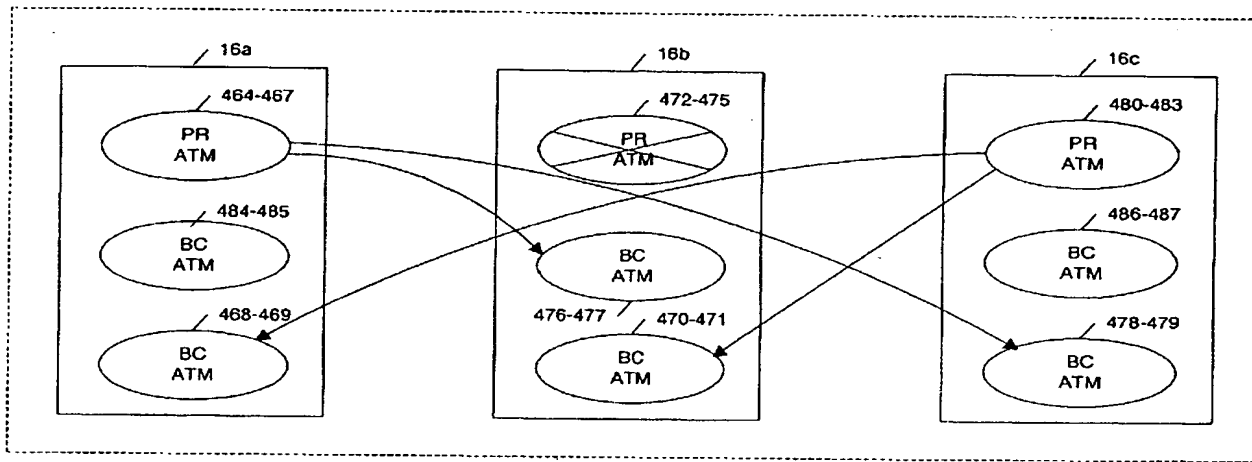


Fig. 32c

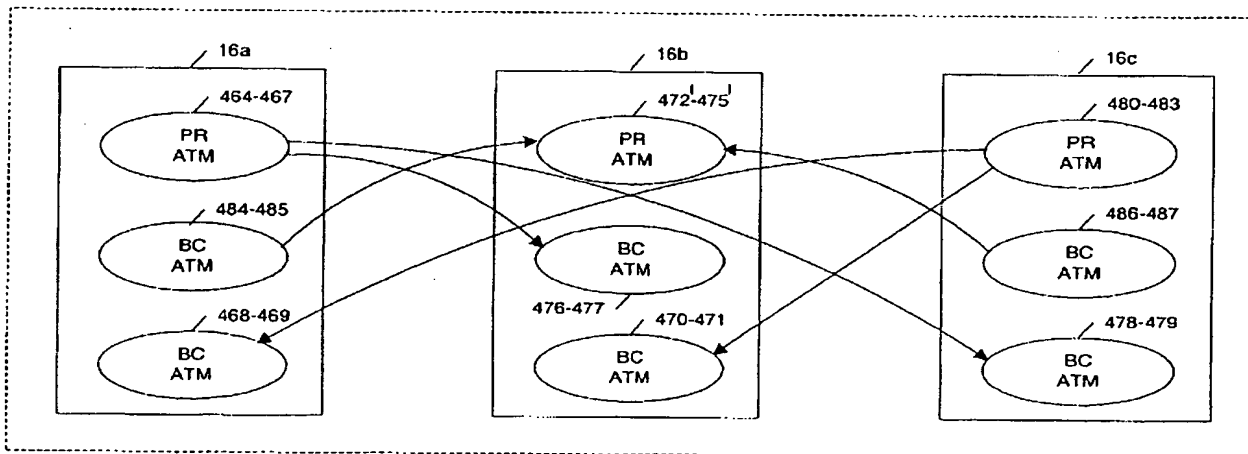


FIG. 33a

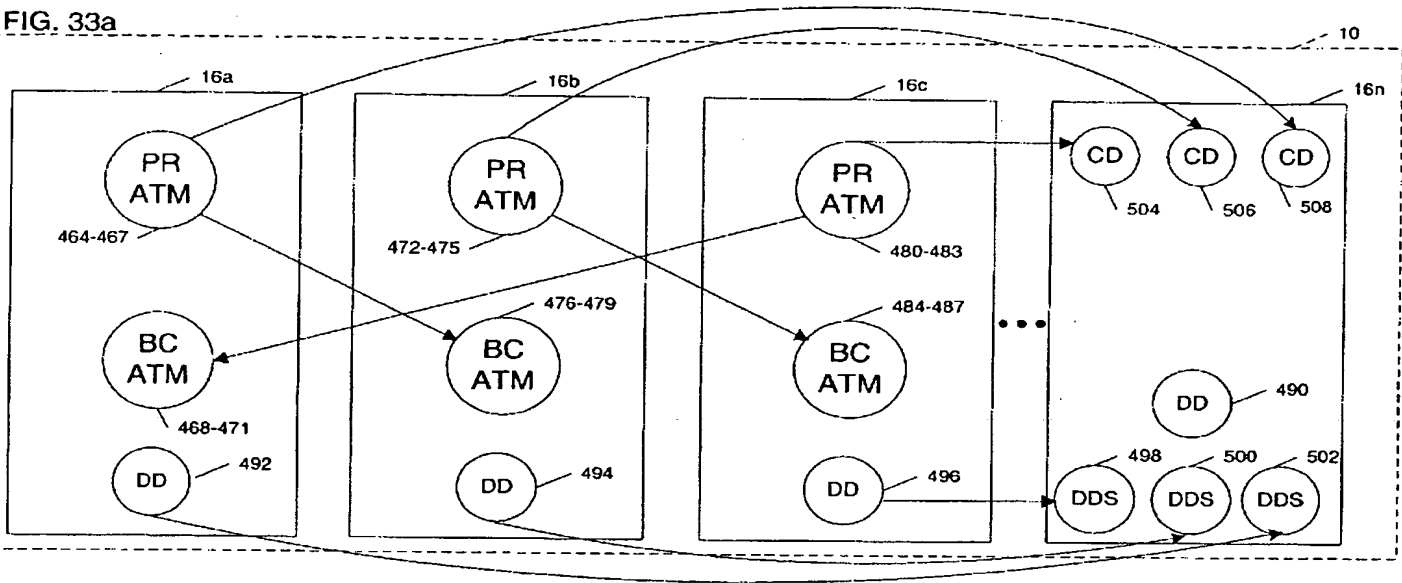


FIG. 33b

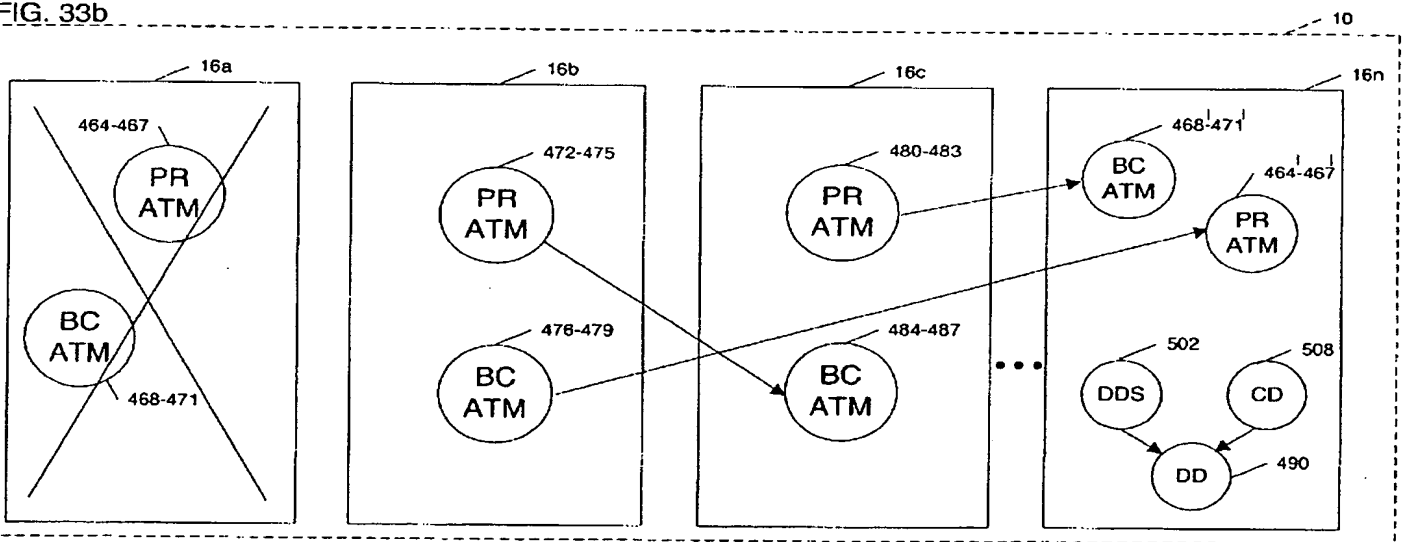


FIG. 33c

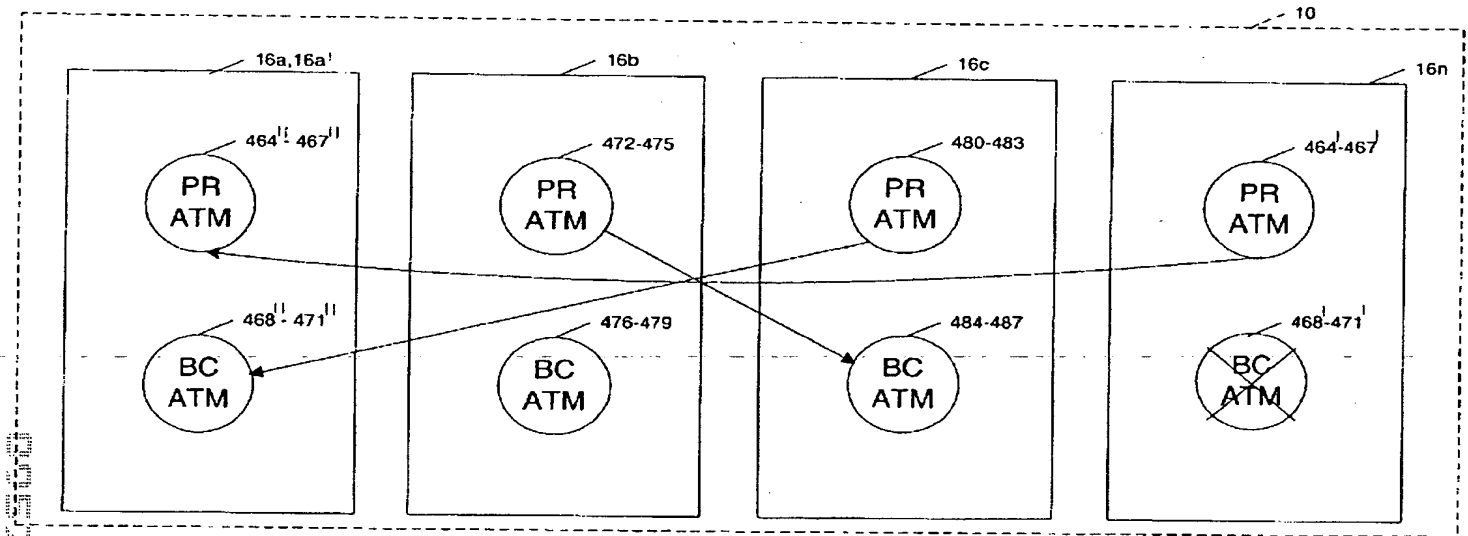


FIG. 33d

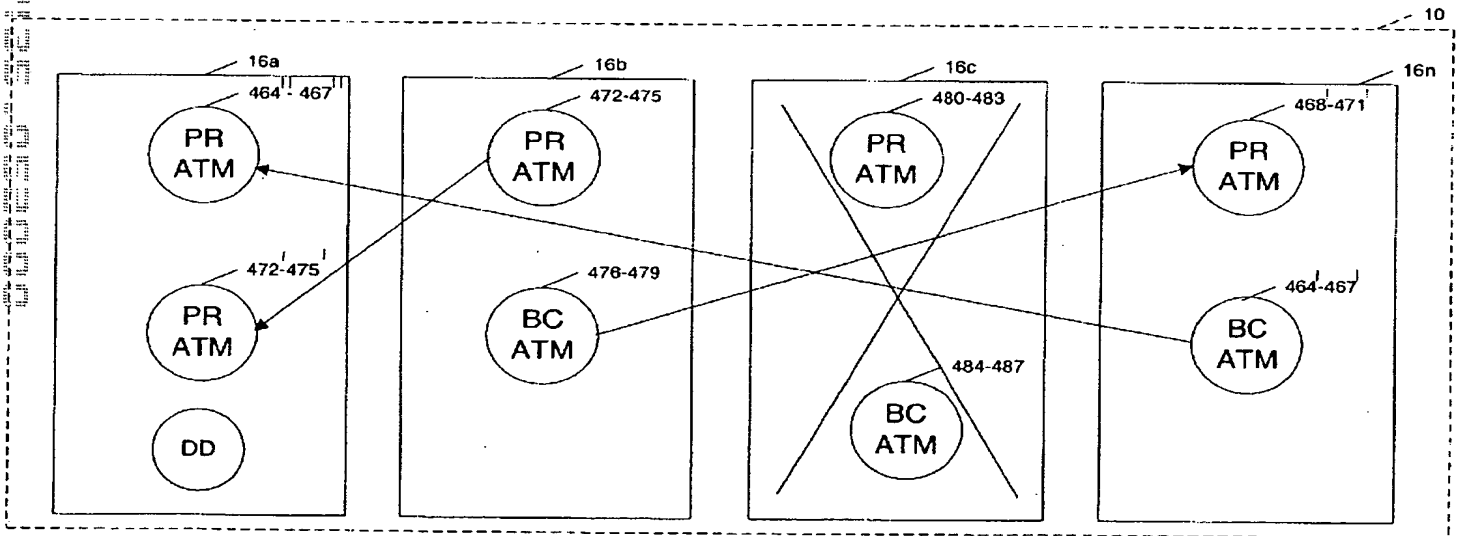


Fig. 34a

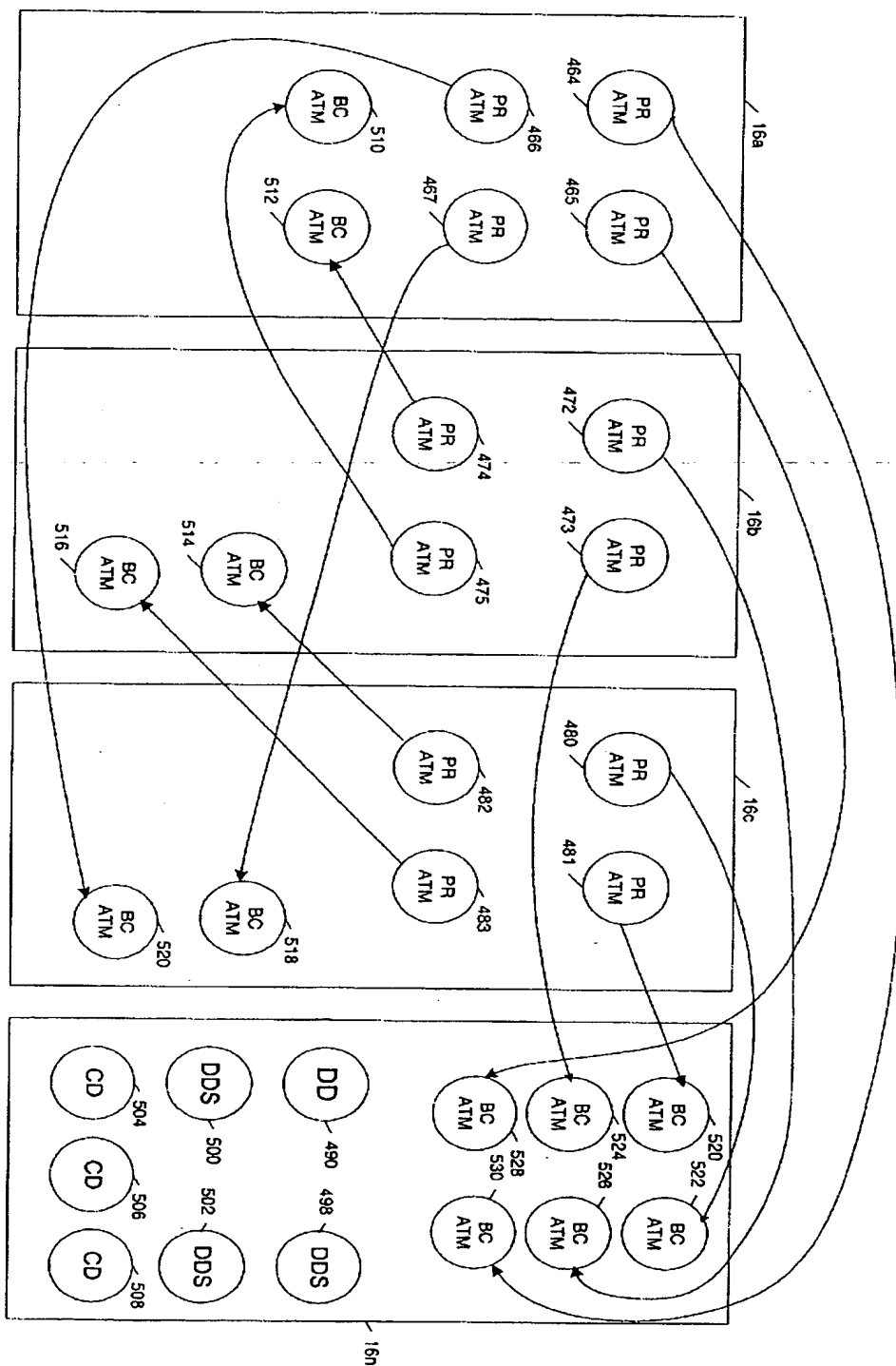


FIG. 34b

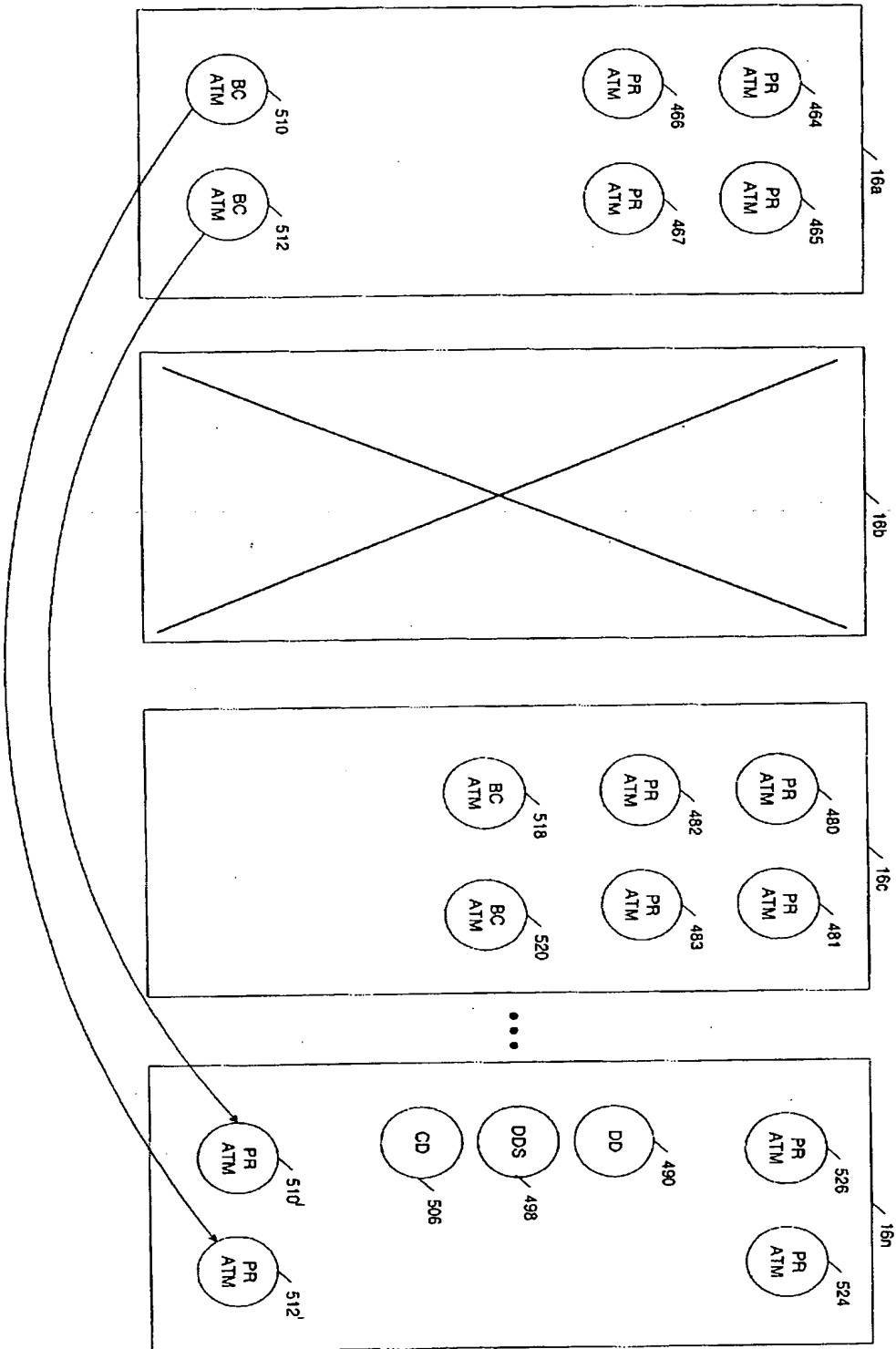


FIG. 35

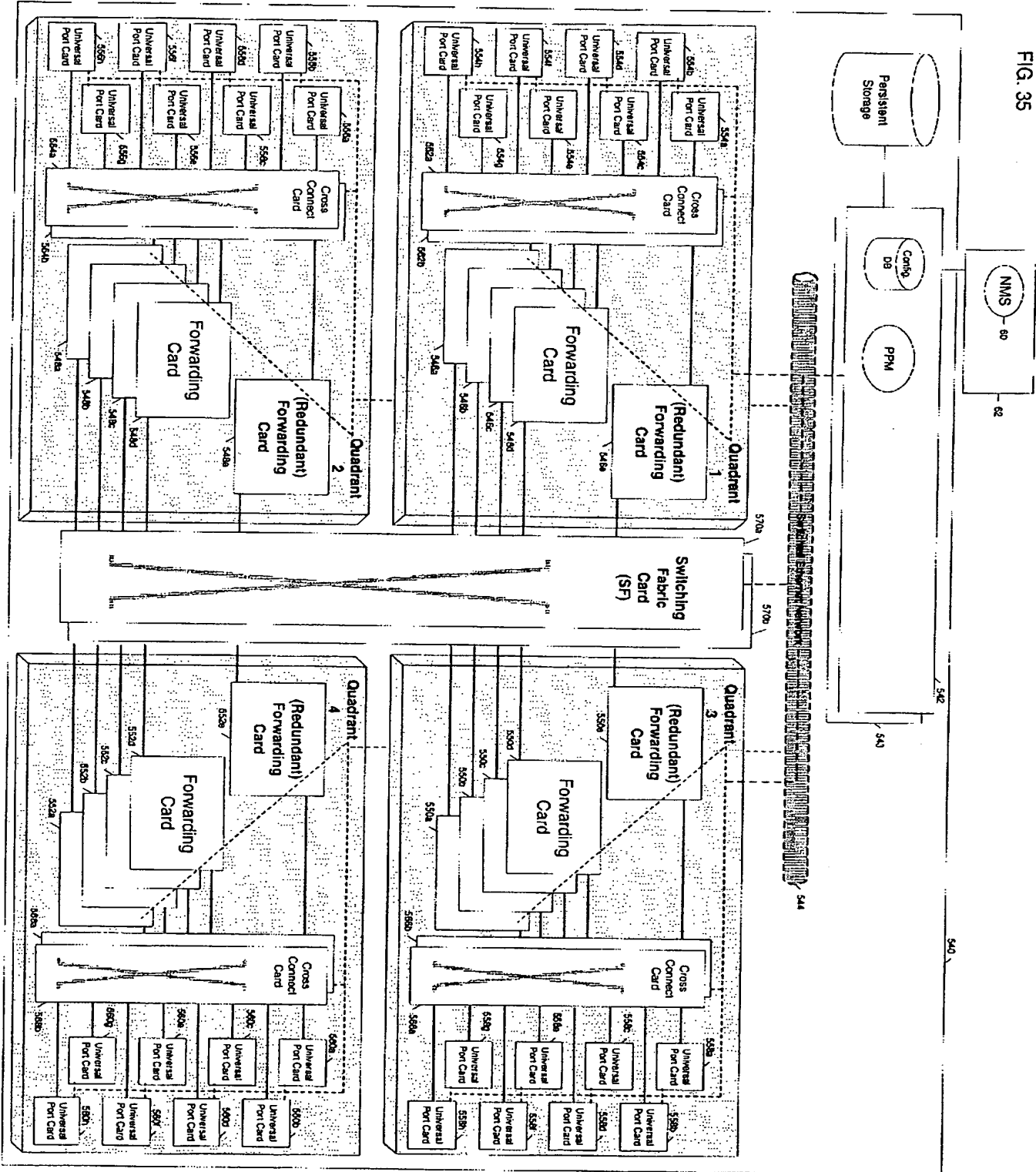


FIG. 36

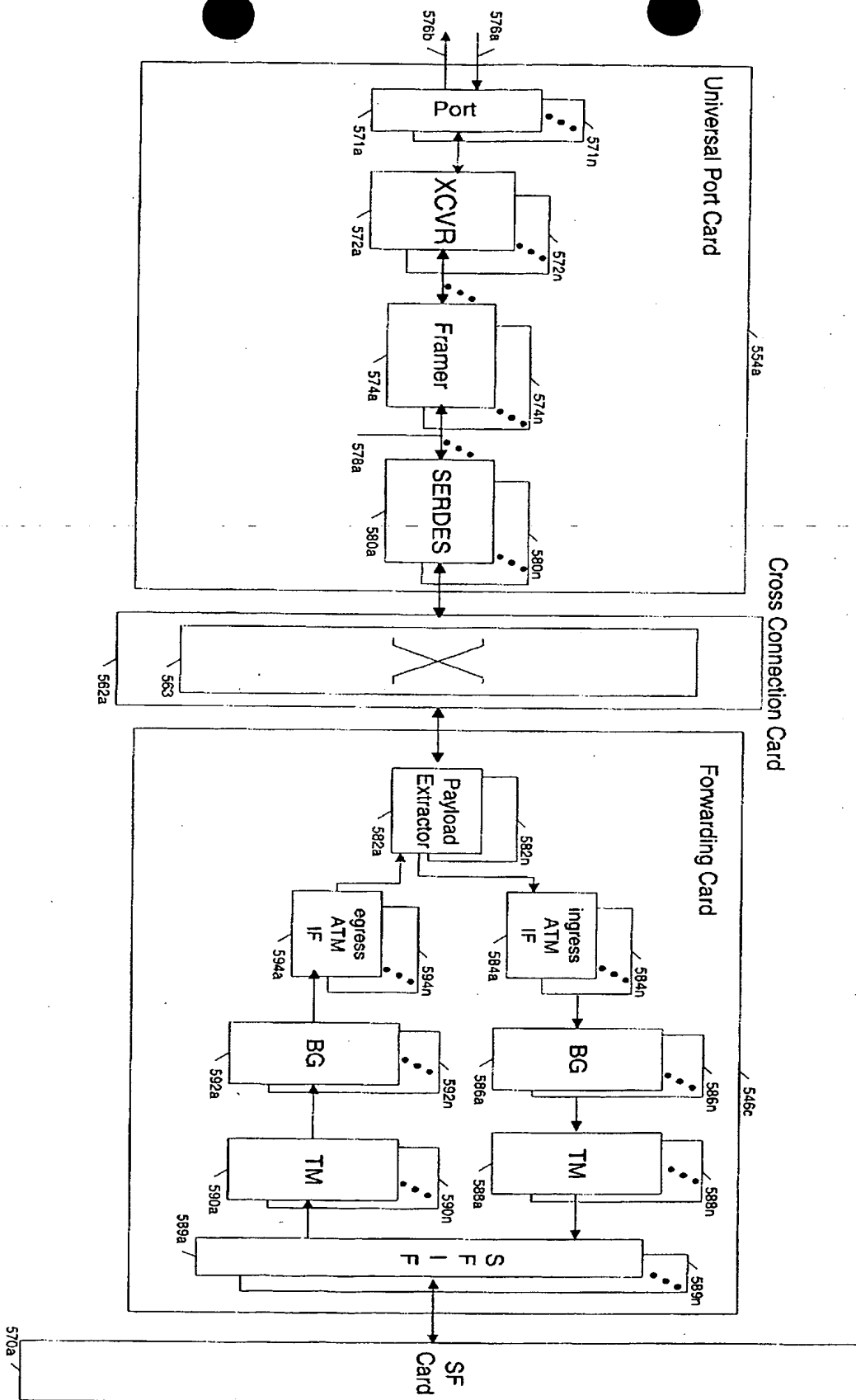


FIG. 37

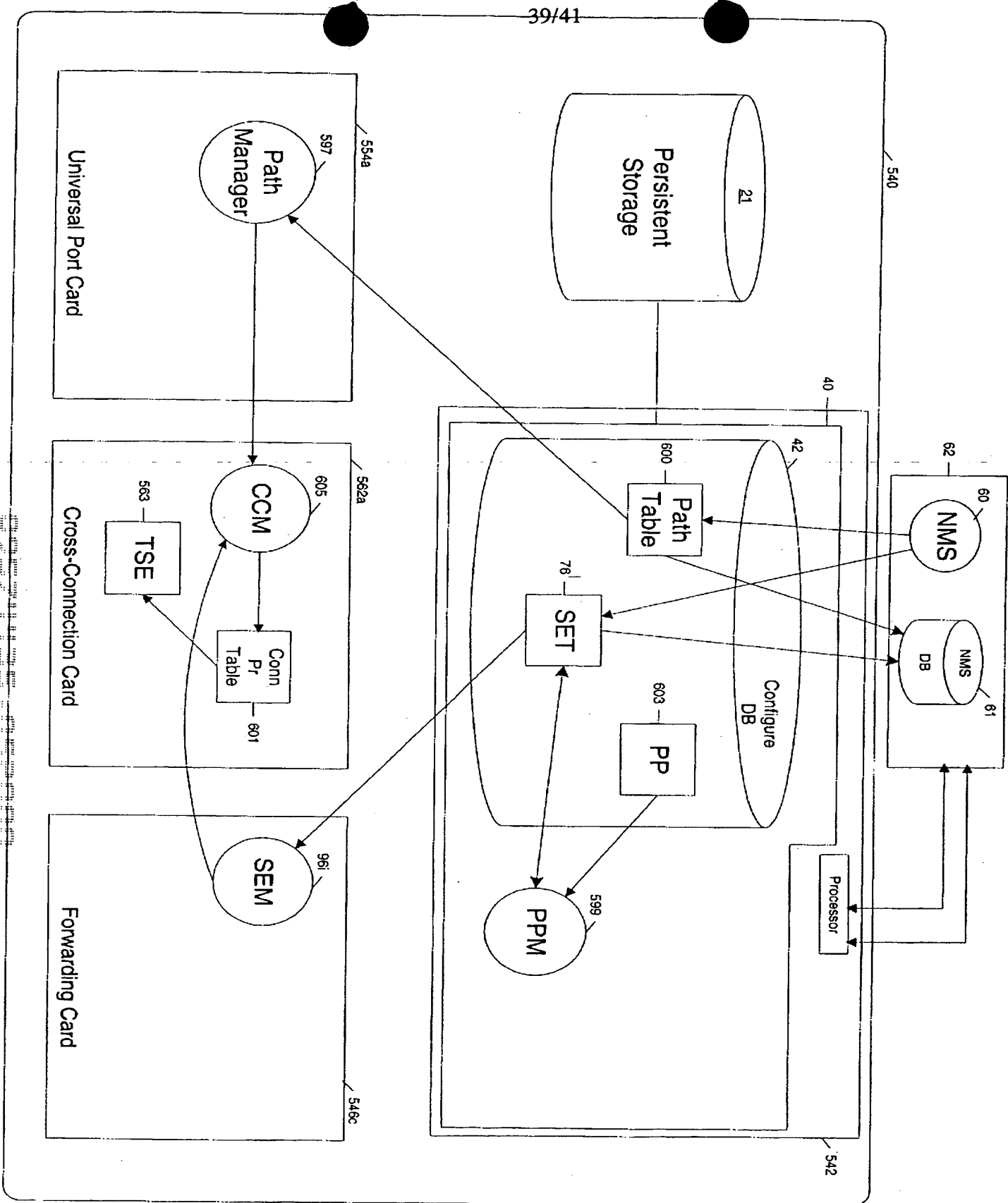


FIG. 38

Path Table 600



Path LID	UP Port LID	Time Slot	# of Time Slots	...
1666	1231	4	3	
...

602 —

FIG. 38 is a diagram of a Path Table 600. The table has five columns: Path LID, UP Port LID, Time Slot, # of Time Slots, and an ellipsis. The first row contains the values 1666, 1231, 4, 3, and an empty cell. The second row contains ellipses in all five columns. A reference numeral 602 points to the first row of the table.

FIG. 39

Service End Point Table 76'

606							608 610	
SE #	Q #	FC LID	FC Slice	FC Time Slot	Path PID	...		
878	1				1666			
...		

604 —

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